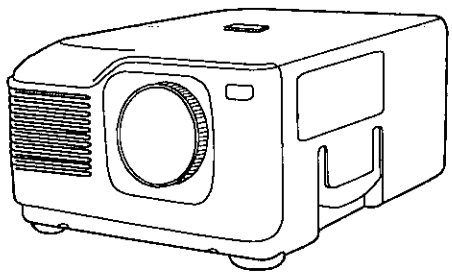
SHARP

SERVICE MANUAL
SERVICE-ANLEITUNG
维修手册

S56i3XG3700E/



SECAM/PAL/NTSC SYSTEM
LCD PROJECTOR
LCD PROJEKTOR
液晶投影机

MODEL
MODELL
型号 **XG-3700E**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzer-Sicherheit (in einigen Länder durch Sicherheitzvorschriften gefordert) sollte dieses Gerät wieder auf seinen ursprünglichen Zustand eingestellt und nur die vorgeschriebenen Teile verwendet werden.

为了用户安全起见(根据一些国家的安全规程的需要)，应将电视机保持于最初的状态，而且只能使用与指定物相同的部件。

SHARP CORPORATION

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Specifications

Product Type	LCD Projector
Model	XG-3700E
Video system	PAL/SECAM/NTSC 3.58/NTSC 4.43
Display method	LCD panel × 1, RGB optical shutter method
LCD panel	
PANEL SIZE	16.3 cm (6.4") (97.5 [H] × 130.0 [W] mm)
DISPLAY METHOD	Translucent TN liquid crystal panel
DRIVE METHOD	TFT (Thin Film Transistor) Active Matrix panel
NO. OF PIXELS	307,200 pixels (640 [W] x 480 [V])
Lens	F4.4, f = 218 mm
Projection lamp	350 W Metal halide
Contrast ratio	100:1
Video input signal	RCA Connector: VIDEO, composite video, 1 Vp-p, sync negative, 75 Ω terminal RCA Connector: AUDIO, 0.5V rms less than 22k Ω
S-video input signal	4-pin mini DIN connector Y (luminance signal): 1 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): burst 0.286 Vp-p, 75 Ω terminated
Audio output signal	RCA Connector: AUDIO, 0.5V rms less than 2.2k Ω
Horizontal resolution	500 TV lines (video input)
Audio output	5 W (monaural)
Computer RGB input signal	
Data signal	15 pin mini D-sub connector: RGB separate type analog input: 0.7 Vp-p, positive, 75 Ω terminated
Audio signal	Stereo Minijack: AUDIO, 0.5 Vrms, more than 22 kΩ (stereo)
HORIZONTAL SYNC. SIGNAL	TTL level (positive/negative) or composite sync (Macintosh only)
VERTICAL SYNC. SIGNAL	Same as above
Speaker system	3" (8 cm) round
Rated voltage	AC 200-240 V
Rated frequency	60/50Hz
Power consumption	440 W
Operating temperature	5°C to 40°C
Storage temperature	−20°C to 55°C
Cabinet	Plastic
Dimensions (W × D × H)	351 x 499 x 222 mm
Weight	10.2 kg
Supplied accessories	Remote control unit, Two AAA batteries, Extra air filter, VGA signal cable (3 m), Mac/VGA adaptor, AC cord, Lens cover (installed)
Replacement parts	Remote control, Air filter, VGA cable, Mac/VGA adaptor, AC cord

Our projector uses an LCD (Liquid Crystal Display) panel. This very sophisticated panel contains 307,200 pixels. (RGB Trio) TFTs (Thin Film Transistors). As with any high technology electronic equipment such as large screen TVs, video systems and/or video cameras, there are certain acceptable tolerances that the equipment must conform to. Sharp's acceptable tolerances permit a total of 35 inactive TFTs, which may result in illuminated dots on the picture screen.

This will not affect the picture quality or the life expectancy of the unit.

Specifications are subject to change without notice.

NOTE TO SERVICE PERSONNEL

UV-RADIATION PRECAUTION

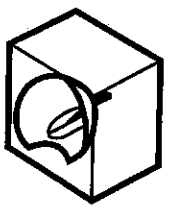
The light source, metal halide lamp, in the LCD projector emits small amounts of UV-Radiation.

AVOID DIRECT EYE AND SKIN EXPOSURE.

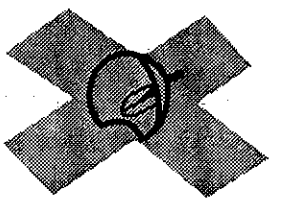
To ensure safety please adhere to the following:

1. Be sure to wear sun-glasses when servicing the projector with the lamp turned "on" and the top enclosure removed.

2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



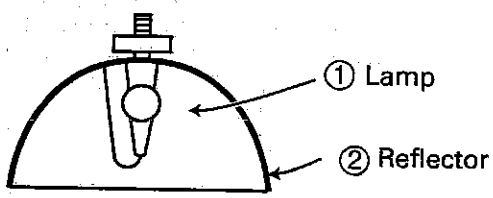
UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type CLMPF0037DE01 rated 65V/350W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

■ Lamp Replacement

Note:

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.)
Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.
[Use original replacement only.]



DANGER ! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

UV-RADIATION PRECAUTION (Continued)

Place the lamp cover on the opening during servicing. (Fig. 1)

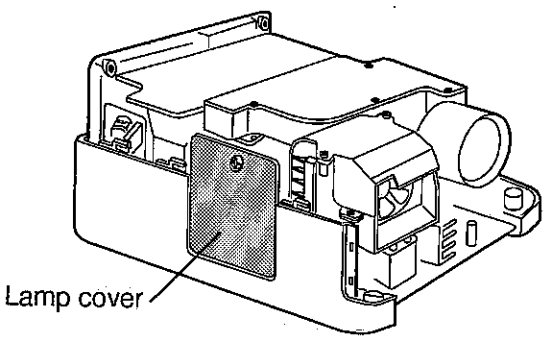
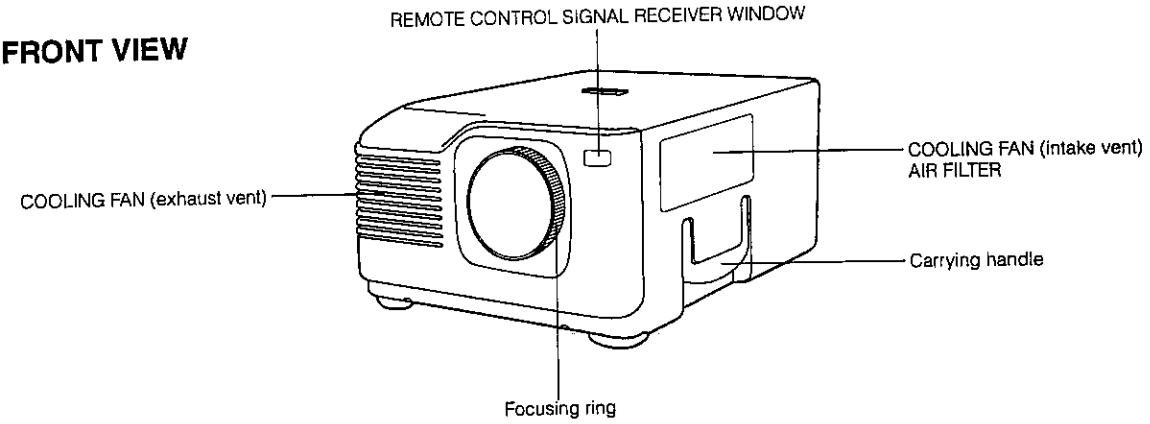


Figure 1

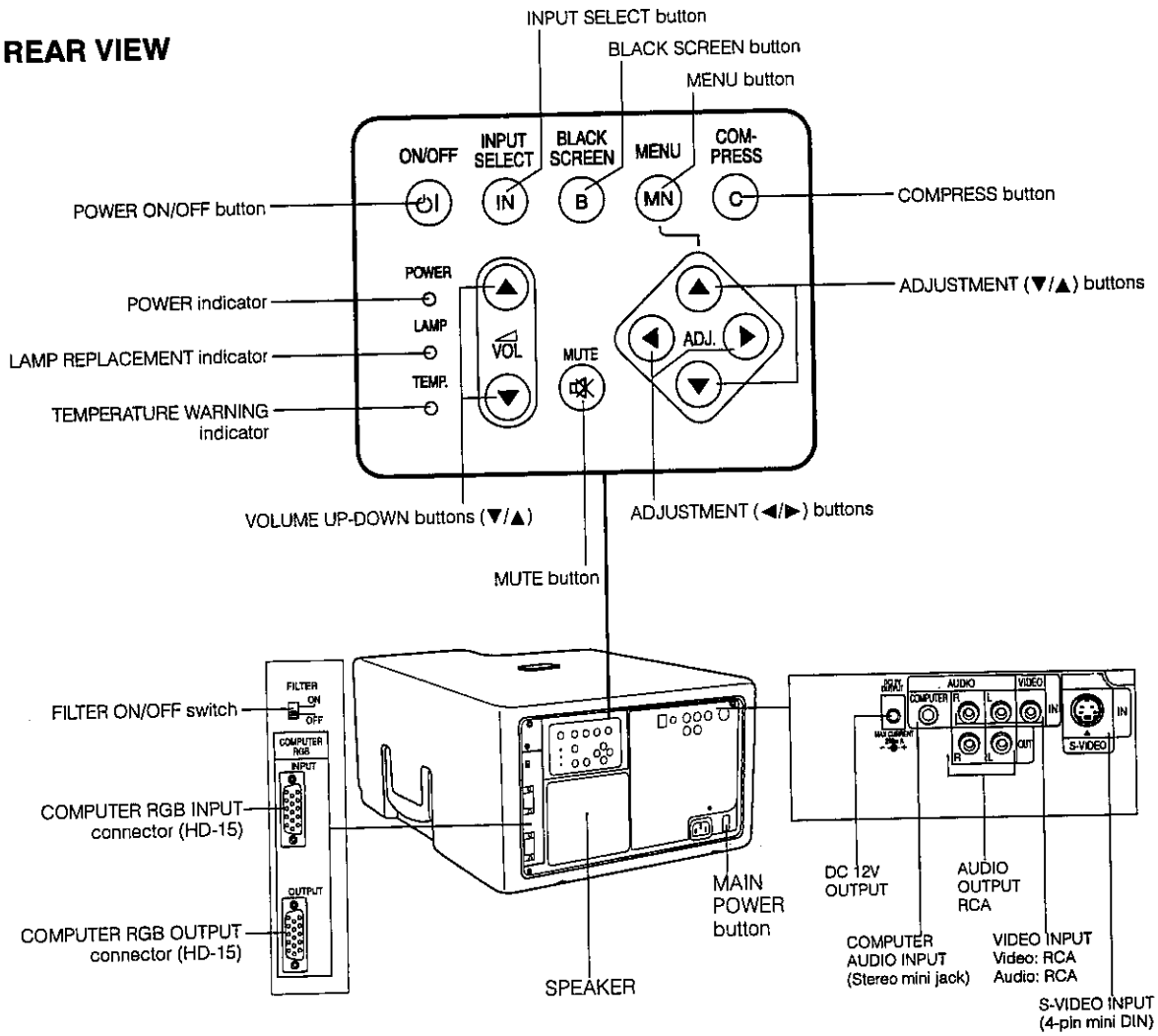
Location of Controls

FRONT VIEW



OPERATION PANEL ON REAR OF PROJECTOR

REAR VIEW

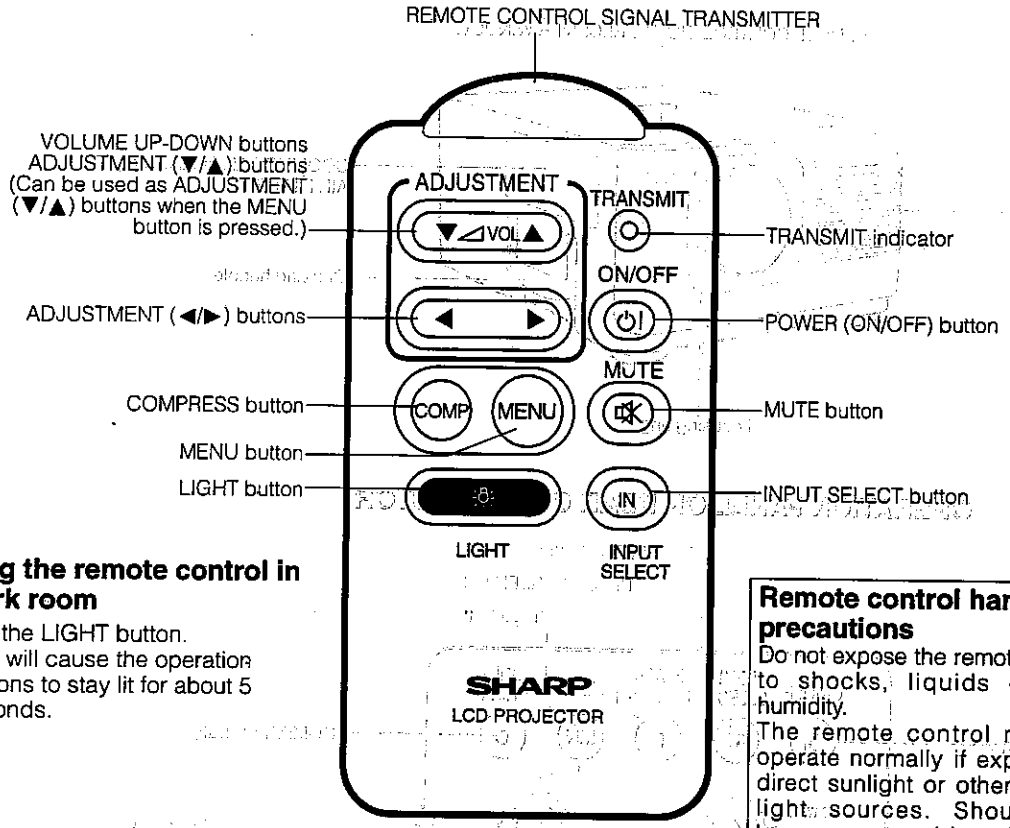


Note:

- If a current of 200mA or more is drawn from the DC 12V OUTPUT jack, a protection device will automatically turn off the projector and leave it in stand-by mode.

Remote Control Operation

REMOTE CONTROL



Using the remote control in a dark room

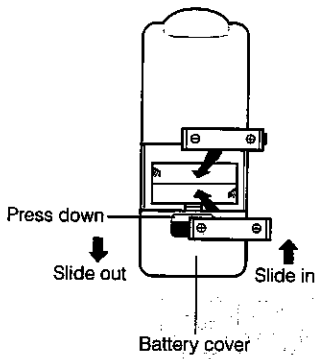
Press the LIGHT button.

- This will cause the operation buttons to stay lit for about 5 seconds.

Remote control handling precautions

Do not expose the remote control to shocks, liquids or high humidity.

The remote control may not operate normally if exposed to direct sunlight or other intense light sources. Should this happen, reposition the light source or the LCD Projector.



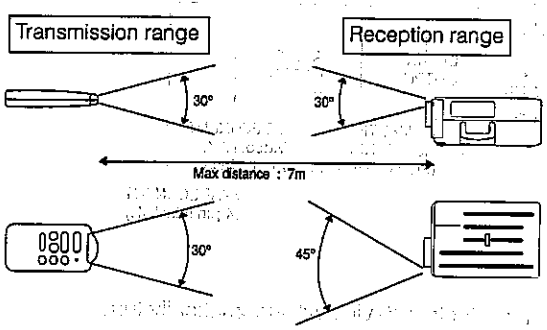
Inserting the Batteries

Remove the battery cover as shown and insert two AAA size batteries making sure the polarity matches the (+) and (–) marks inside the battery compartment.

Notes:

Incorrect use of batteries may cause them to leak or burst.

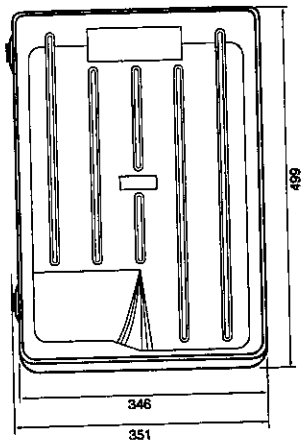
- Insert the batteries with the (+) and (–) polarities as indicated.
- Remove the batteries if the remote control will not be operated for an extended period of time.
- Maintain the batteries in clean condition.
- Do not mix different brands of batteries. The life expectancy of the new batteries will be shortened and the old batteries may leak.
- When the batteries have been used up, remove them immediately to prevent leakage and damage. Leaked battery fluid may irritate the skin. Remove any battery fluid by wiping with a cloth.
- Due to storage conditions and the shelf life of the supplied batteries, they may run out after a short time. Replace them with new batteries as soon as possible.



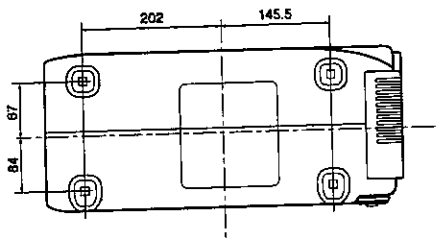
Remote control positioning

Use the remote control as shown in the figures on the left.

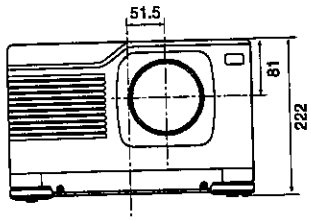
Dimensions



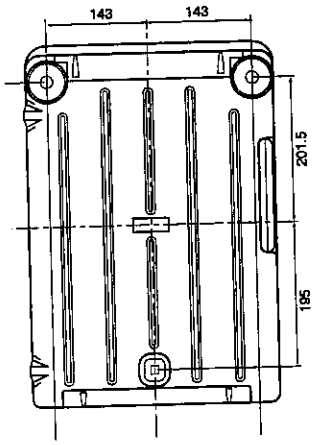
Top View



Side View



Front View



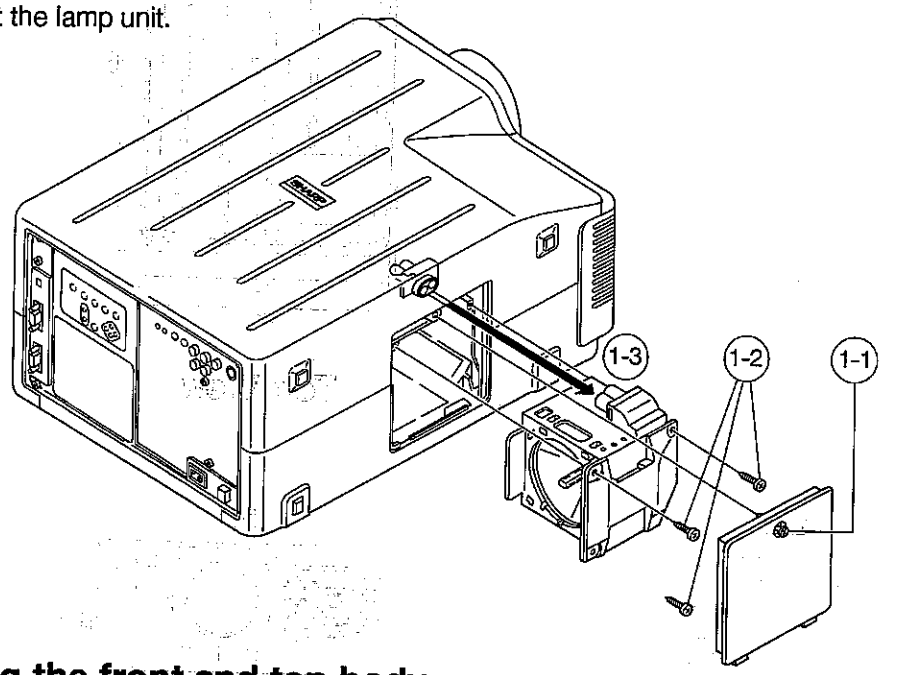
Bottom View

[Units: mm]

REMOVAL OF MAJOR COMPONENTS

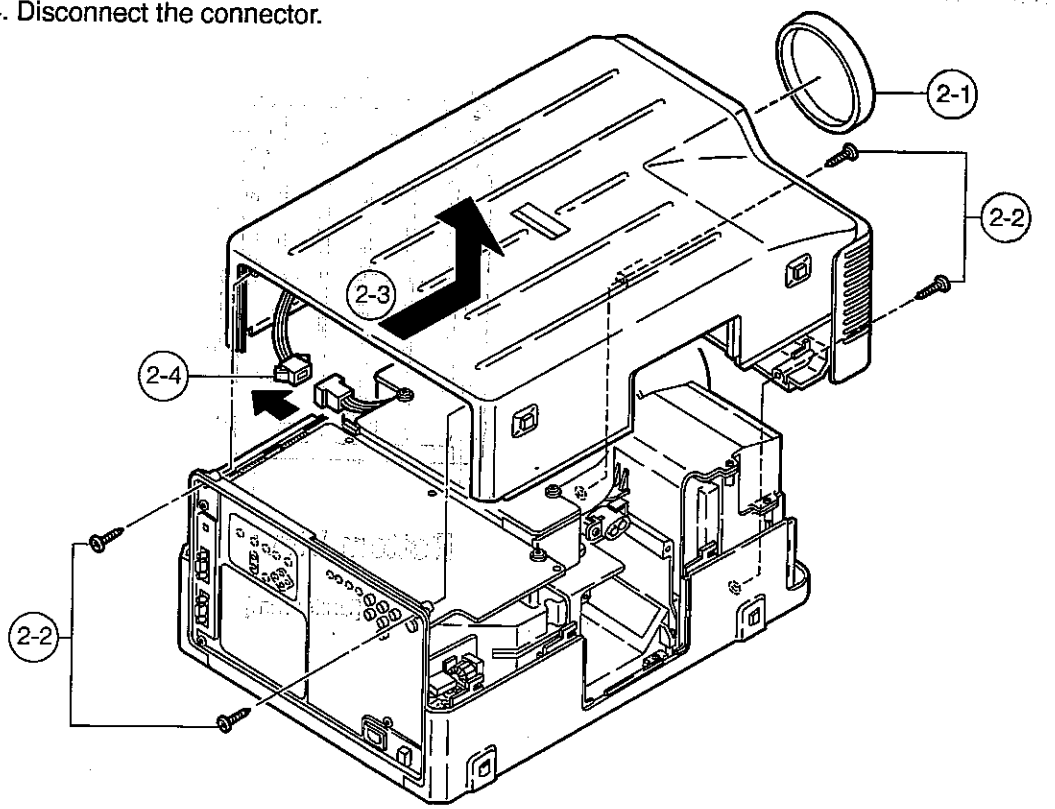
1. Removing the lamp unit

1-1. Remove the screw off the lamp cover and detach the cover.
1-2. Remove the three screws off the lamp unit.
1-3. Take out the lamp unit.

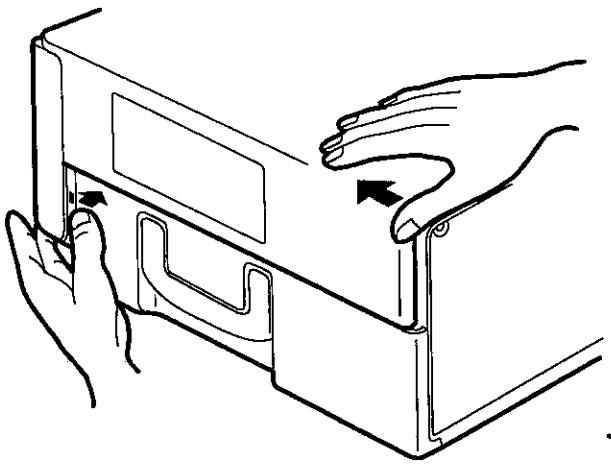


2. Removing the front and top body

2-1. Detach the lens cap and retract the lens most.
2-2. Remove the four screws off the top body.
2-3. Slide the top body forward about 20 mm, and remove the top body.
2-4. Disconnect the connector.



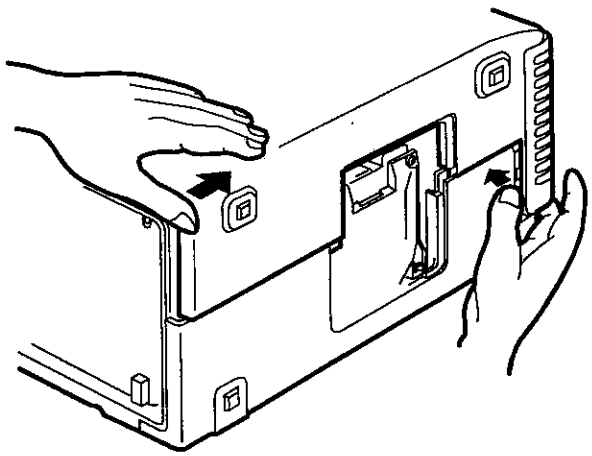
Details of Step 2-3



Unhooking the top body

2-3-1. Press the arrow-marked point of the handle-equipped side of the top body with your right hand, and at the same time press the arrow-marked point of the bottom body with your left hand. Hold down the hook with your thumb and slide the top body forward.

2-3-2. Press the arrow-marked point of the lamp-equipped side of the top body with your left hand, and at the same time press the arrow-marked point of the bottom body with your right hand. Hold down the hook with your thumb and slide the top body about 20 mm forward.

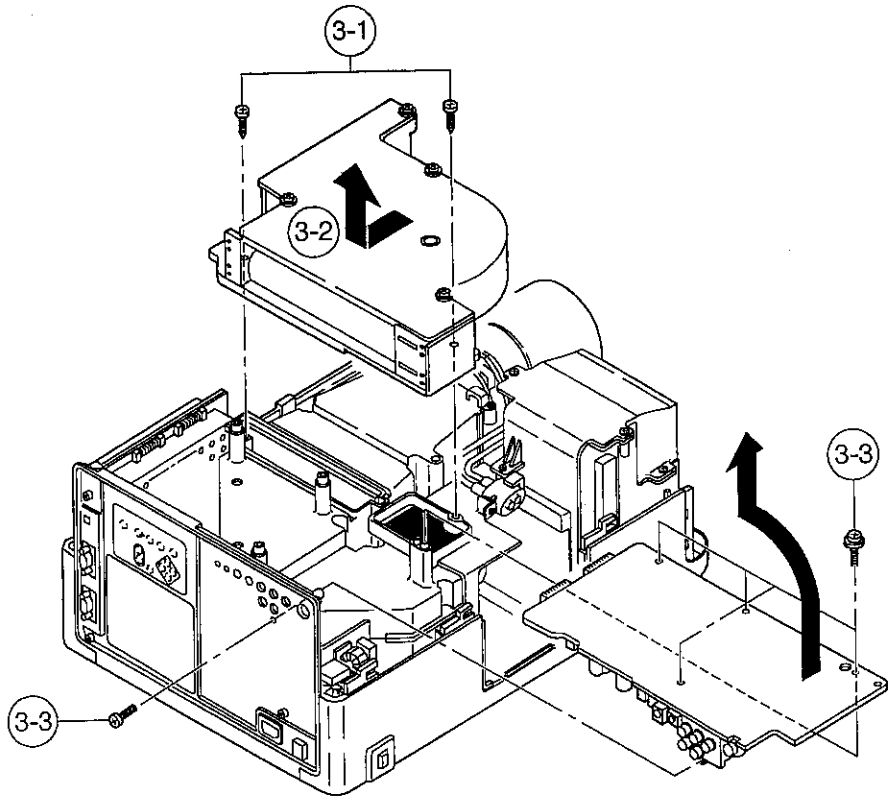


3. Removing the fan duct and main unit

3-1. Remove the two screws off the fan duct.

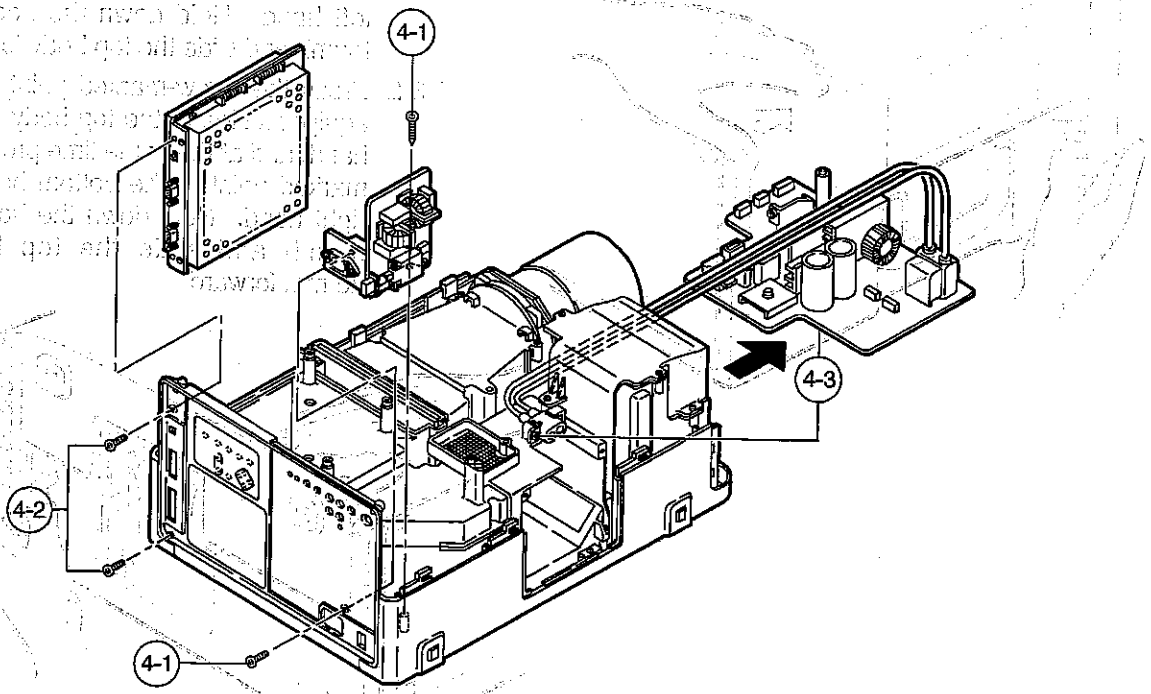
3-2. Lift the back of the fan duct and remove the fan duct.

3-3. Remove the five screws that secure the main unit.



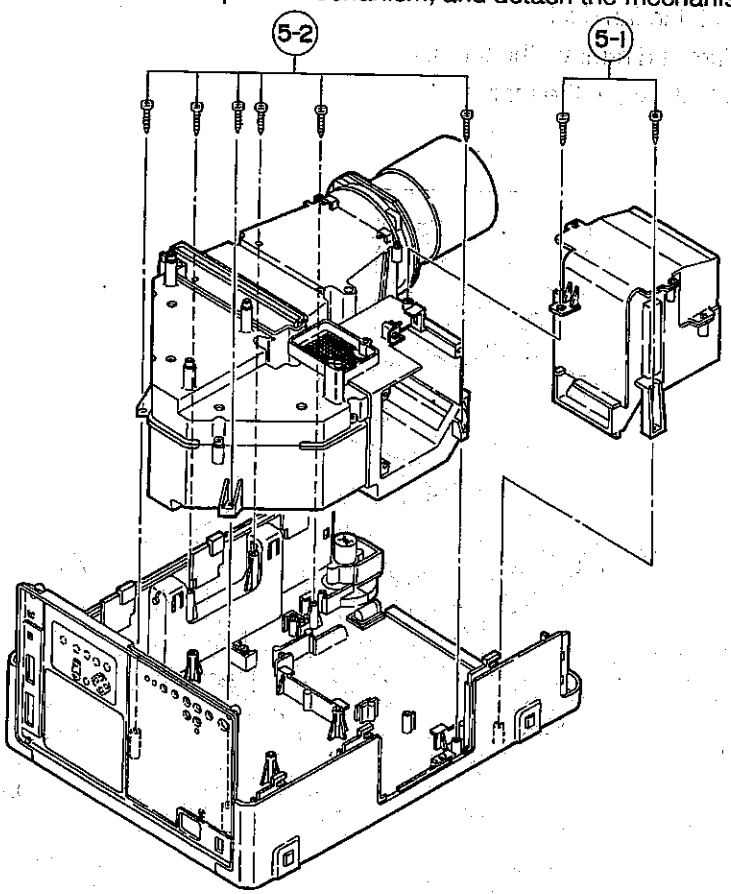
4. Removing the other PWBs

4-1. Remove the two screws off the power switch unit.
4-2. Remove the two screws off the PC/IF unit.
4-3. Remover the screw and remove the power/ballast unit.

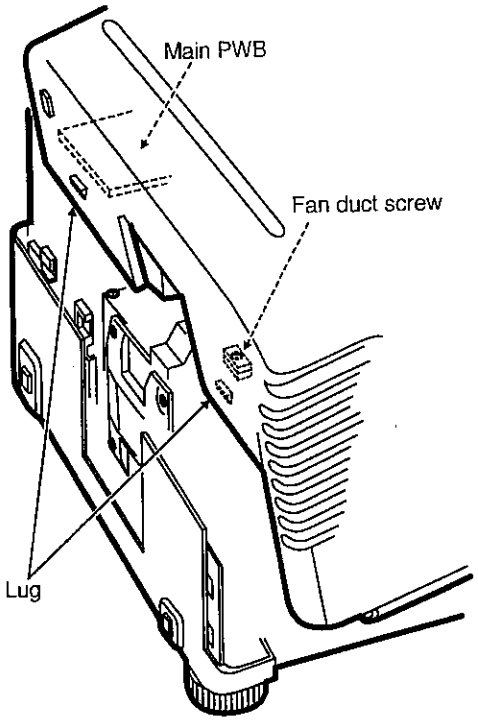


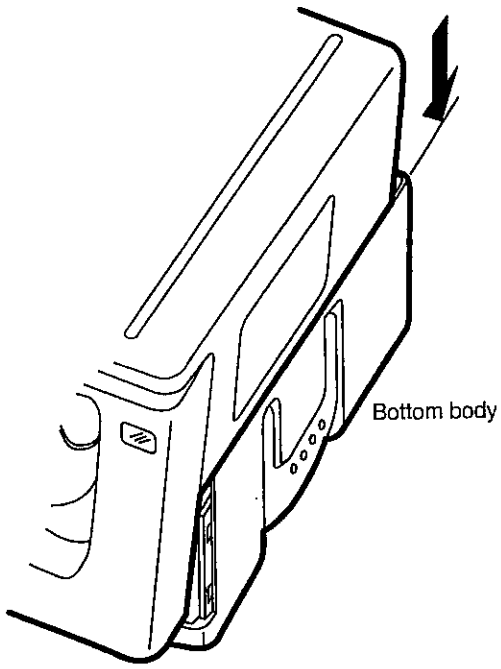
5. Taking out the optical mechanism

5-1. Remove the two screws off the fan unit, and detach the unit.
5-2. Remove the six screws off the optical mechanism, and detach the mechanism.

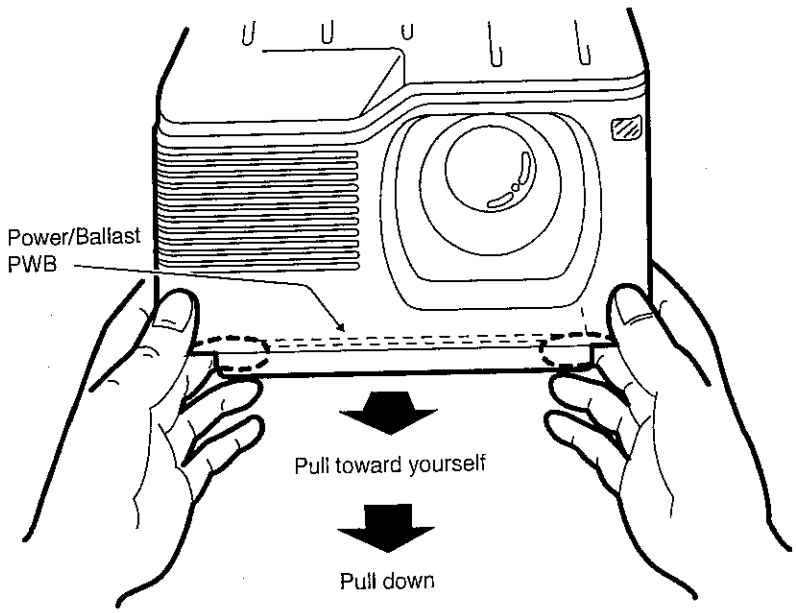


6. Attaching the front/top body assembly





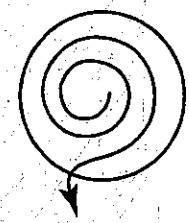
6-1. Retract the lens most.
6-2. Reconnect the connector, once removed in Step 2-4, to the front/top body assembly.
6-3. Place the top body so that its lamp-side hooks come below the main PWB and the fan duct.
6-4. Place the top body's handle-side down to the bottom body.



6-5. Put your fingers inside the bottom of the front body. Pull the front body a little toward yourself until the power/ ballast PWB comes in the front body.
6-6. Slide the front/top body assembly backward.
6-7. Tighten up the four screws, removed in Step 2-2, to fix the front/top body assembly.

■ Cleaning the lenses and mirrors

1. Lens cleaner



- Cleaning agent:
  Change the mixture ratio of alcohol and ether depending on ambient temperatures.
  When the liquid evaporates from the lens surface immediatly after you rub it, it is the best mixture ratio.
  The more ether is used, the quicker the liquid evaporates.
- **WARNING:** Ether is a light volatile flammable liquid. Practice extrene caution while handling. Do not expose the liquid or vapors to flames or spark source.
- Method:
  Use well-washed bleached cotton or cleaning paper available on the market. Hold the lens, sandwiched in the bleached cotton dampened with the liquid, with the thumb and the index finger. Turn the lens and wipe the surface clean from the center outward to collect dust. Be careful not to rub the coated surface too strong.

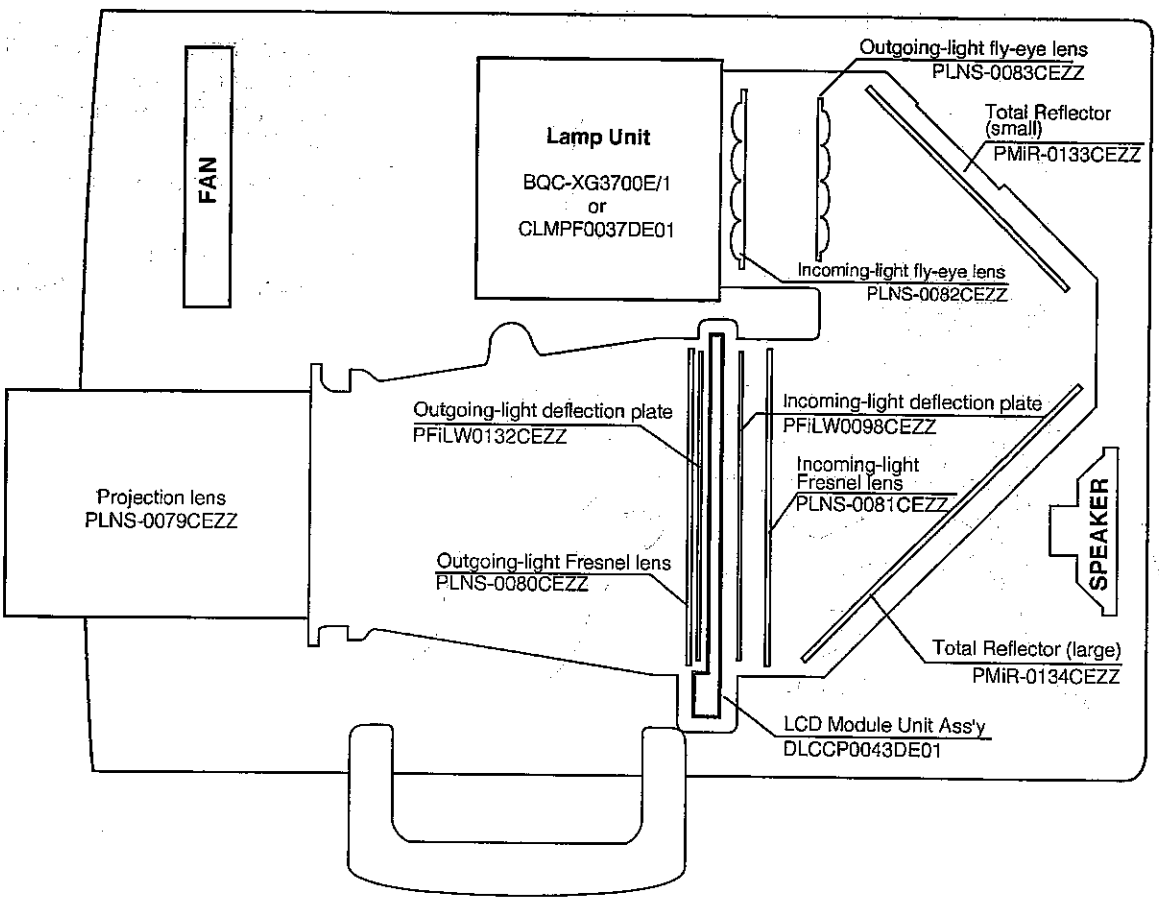
2. Mirror cleaning

Never rub the mirrors strongly because its surface has been deposit-coated. Use some alcohol first and then wipe with dry cloth if the surface is slightly dirty.

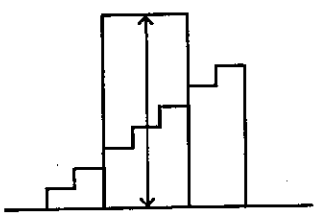
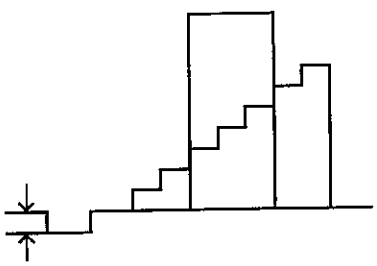
3. Precaution

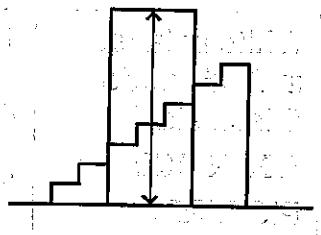
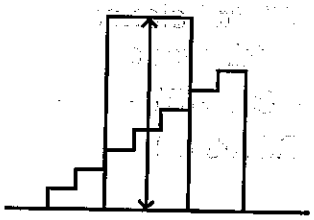
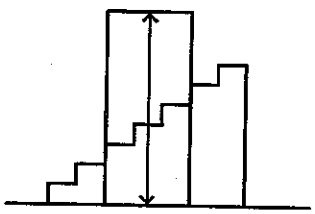
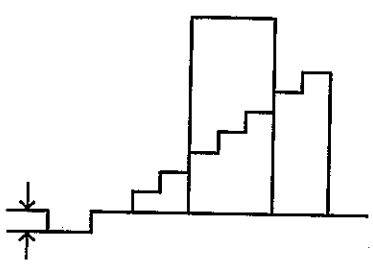
The picture quality is greatly affected if both sides of the LCD unit and the LCD side of the field lenses are dirty. Pay enough attention to these surfaces.

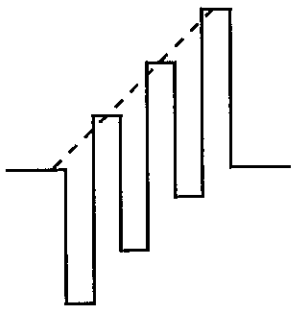
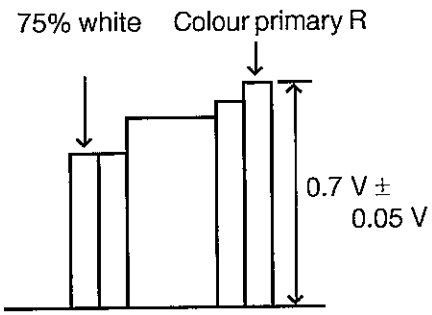
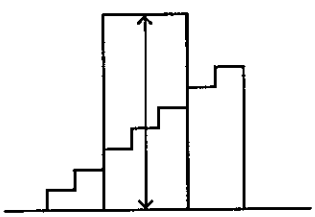
4. Layout of Optical System

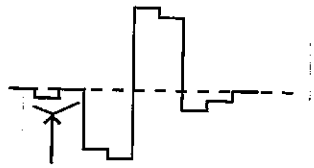
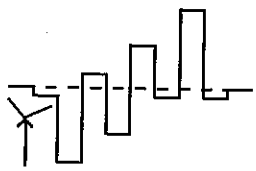
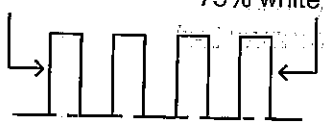


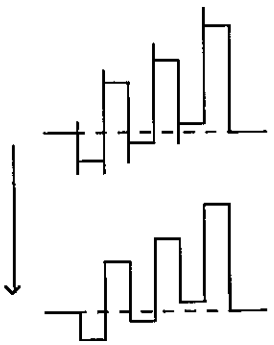
ELECTRICAL ADJUSTMENT

No.	Adjustment position	Adjustment condition	Adjustment method
1	**Initialization**		• Press the "RESET" key use the MENU button to select the each mode.
2	**White balance in RGB mode (black side)** **ADJIN RGB** **PICTURE, BRIGHT, R-DRIVE, B-DRIVE**	1. Input the gray scale (8-tone) signal in the RGB mode. 2. Press S2001 to call up the ADJ IN mode. Select RGB. 3. Connect a voltmeter to TP601.	• Adjust PICTURE to have 2.5 ± 0.05 V at (1) pin. Adjust BRIGHT to have 1.4 ± 0.05 V at (4) pin. Adjust R-DRIVE to have 1.5 ± 0.05 V at (2) pin. Adjust B-DRIVE to have 1.5 ± 0.05 V at (3) pin.
3	**White balance (RGB mode)** **R8095 (R)** **R8103 (B)**	1. Input the gray scale signal in the RGB mode. (Make this adjustment if the white balance is visibly out of spec.)	• Adjust R8095 and R8103 so that the white balance be visibly as specified. (Factory-adjusted item on the PC-IF board.)
4	**AGC** **R1515** **(Main)**	1. Receive the NTSC colour bar signal. 2. Connect an oscilloscope between pin (1) of TP801 and GND.	• Adjust R1515 so that the level between the pedestal and white portion be 0.55 ± 0.05 Vp-p. 
5	**Sub-DC** **(DAC)**	1. Receive the NTSC colour bar signal. 2. Press S2001 to select the following. Group : VIDEO 1 Subject : SUB-DC 3. Connect the oscilloscope between pin (6) of TP801 and GND.	• Adjust the VIDEO ADJUSTMENT +/- buttons on the membrane switch so that the blanking level and the 0-tone level be the same to each other. 

No.	Adjustment position	Adjustment condition	Adjustment method
6	**Sub-contrast (DAC)**	1. Receive the NTSC colour bar signal. 2. Push S2001 and set the follow DAC mode. Group : VIDEO 1 Subject : SUB-C 3. Connect the oscilloscope between pin (6) of TP801 and GND.	• Adjust the VIDEO ADJUSTMENT +/- buttons on the membrane switch so that the level between the pedestal and 100% white portion be 0.6 ± 0.05 Vp-p. 
7	**R sub-contrast R858**	1. Receive the NTSC colour bar signal. 2. Connect the oscilloscope between pin (5) of TP801 and GND.	• Adjust R858 so that the level between the pedestal and 100% white portion be 0.6 ± 0.05 Vp-p. 
8	**B sub-contrast R853**	1. Receive the NTSC colour bar signal. 2. Connect the oscilloscope between pin (7) of TP801 and GND.	• Adjust R853 so that the level between the pedestal and 100% white portion be 0.6 ± 0.05 Vp-p. 
9	**Sub-DC (DAC)**	1. Receive the NTSC colour bar signal. 2. Press S2001 to select the following. Group: VIDEO 2 Subject: SUB-BIAS ((6) pin) R-BIAS ((5) pin) B-BIAS ((7) pin) 3. Connect the oscilloscope between each of the above pins of TP801 and GND.	• Adjust the VIDEO ADJUSTMENT +/- buttons on the membrane switch so that the blanking level and the 0-tone level be the same to each other. 

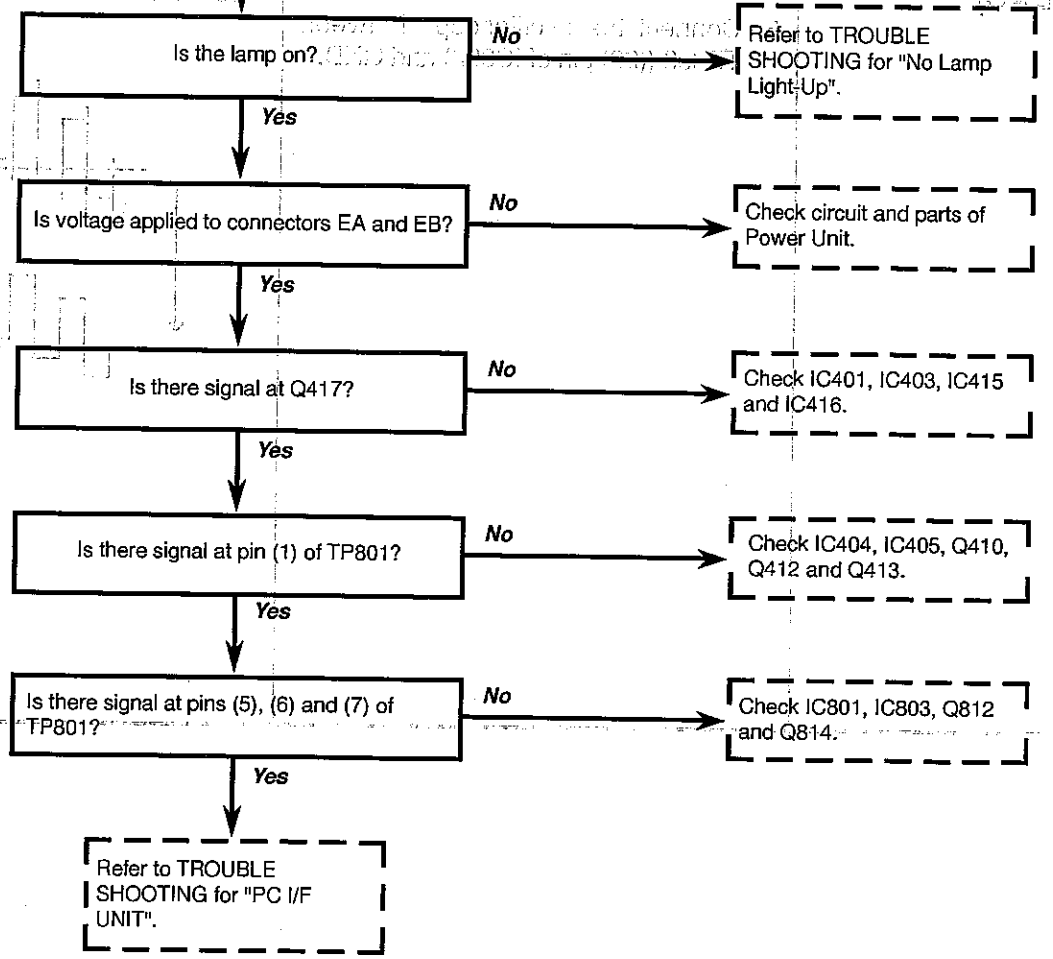
No.	Adjustment position	Adjustment condition	Adjustment method
10	**Tint (DAC)**	1. Receive the NTSC colour bar signal. 2. Press S2001 to select the following. Group : VIDEO 1 Subject : TINT 3. Connect the oscilloscope between TP802 and TP808.	• Adjust the VIDEO ADJUSTMENT +/- buttons on the membrane switch so that the B-Y waveform be slanted in a straight line. 
11	**Colour density (DAC)**	1. Receive the NTSC colour bar signal. 2. Press S2001 to select the following. Group : VIDEO 1 Subject : COLOR 3. Connect the oscilloscope between pin (5) of TP801 and GND.	• Adjust the R colour primary to 0.7 V ± 0.05 V by using the (+) and (-) membrane switch VIDEO ADJUSTMENT buttons. 
12	**Scan converter oscillation L4101 (scan converter)**	1. Make a short-circuit between pin (3) and pin (2) (GND) of TP401. 2. Connect a frequency counter between pin (1) of TP4101 and GND.	• Adjust L4101 so that the frequency counter reads 15.625 ± 0.01 kHz.
13	**PAL Y level (DAC)**	1. Receive the PAL colour bar signal. 2. Press S2001 to select the following. Group : VIDEO 3 Subject : PAL-SUB-C 3. Connect the oscilloscope between pin (1) of TP801 and GND.	• Adjust the VIDEO ADJUSTMENT +/- buttons on the membrane switch so that the level between the signal's black and white portions (negative polarity) be 0.6 ± 0.05 Vp-p. 

No.	Adjustment position	Adjustment condition	Adjustment method
14	**SECAM R-Y (DAC)**	1. Receive the SECAM colour bar signal. 2. Press S2001 to select the following. Group: VIDEO 3 Subject: SCM-R-Y 3. Connect the oscilloscope between TP809 ((30) pin of IC802) and GND.	• Adjust the VIDEO ADJUSTMENT +/- buttons on the membrane switch so that the DC level be the same.  To be at the same level
15	**SECAM B-Y (DAC)**	1. Receive the SECAM colour bar signal. 2. Press S2001 to select the following. Group: VIDEO 3 Subject: SCM-B-Y 3. Connect the oscilloscope between TP808 ((29) pin of IC802) and GND.	• Adjust the VIDEO ADJUSTMENT +/- buttons on the membrane switch so that the DC level be the same.  To be at the same level
16	**SECAM amplitude (DAC)**	1. Receive the SECAM colour bar signal. 2. Press S2001 to select the following. Group: VIDEO 3 Subject: SCM-AMP 3. Connect the oscilloscope between (7) pin of TP801 and GND.	• Adjust the VIDEO ADJUSTMENT +/- buttons on the membrane switch so that the level specified below be brought close to the 75% white level. This level to be brought close to 75% white 75% white 
17	**PAL horizontal phase (DAC)**	1. Receive the PAL monoscope pattern signal. 2. Press S2001 to select the following. Group: VIDEO 3 Subject: PAL-H	• Adjust the VIDEO ADJUSTMENT +/- buttons on the membrane switch so that the right and left overscans be the same to each other.

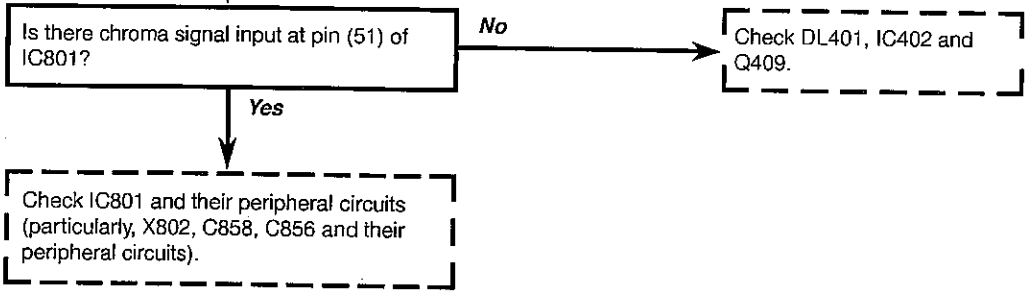
No.	Adjustment position	Adjustment condition	Adjustment method
18	**SECAM bell filter in servicing only (DAC)**	1. Receive the SECAM colour bar signal. 2. Press S2001 to select the following. Group: VIDEO 3 Subject: BELL-FO 3. Connect the oscilloscope between TP808 ((29) pin of IC802) and GND.	• Adjust the VIDEO ADJUSTMENT +/- buttons on the membrane switch so that the borders between different colors be as sharp as possible. 

TROUBLE SHOOTING TABLE

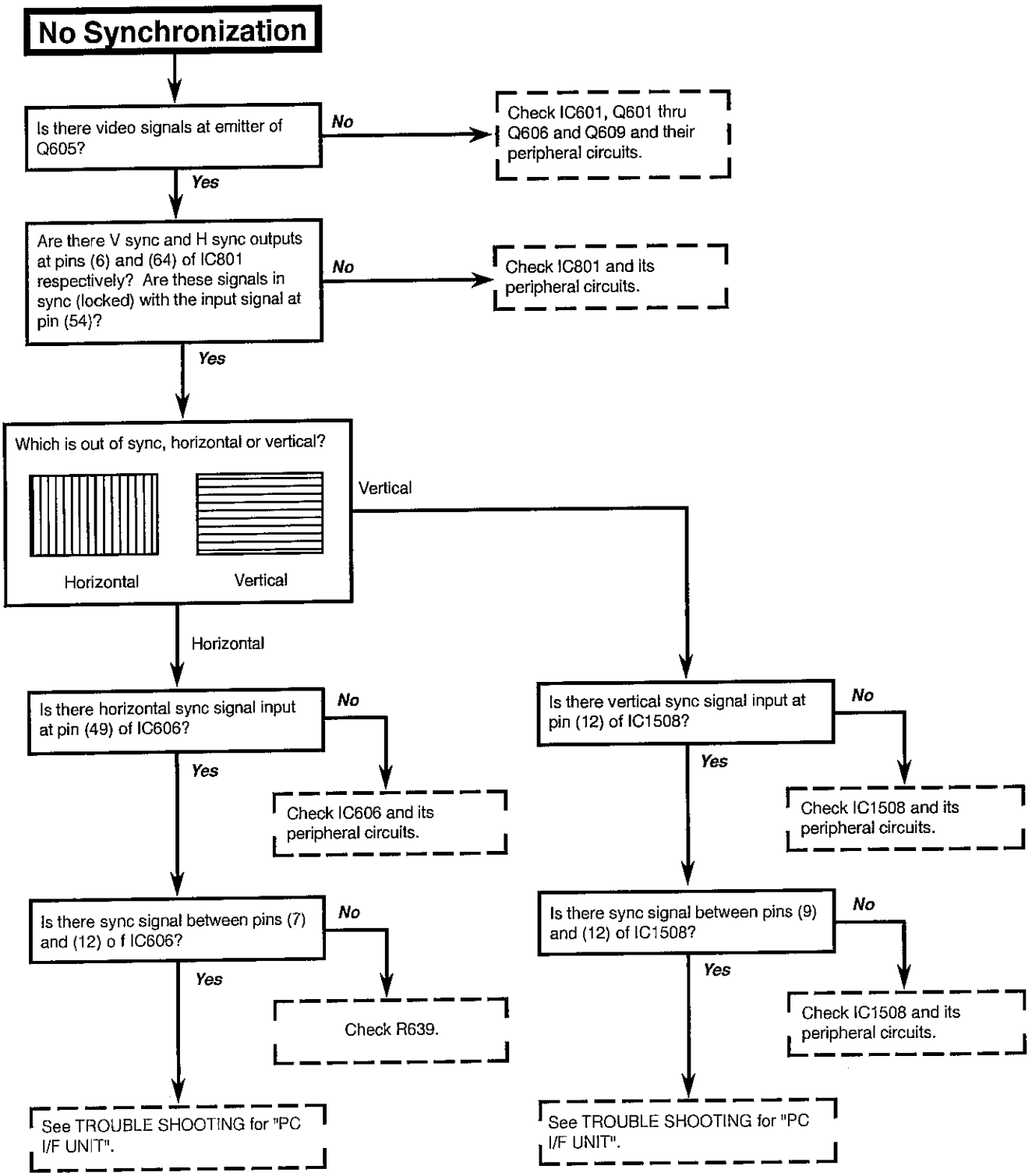
No Picture


Is the lamp on?
No
Refer to TROUBLE SHOOTING for "No Lamp Light-Up".
Yes
Is voltage applied to connectors EA and EB?
No
Check circuit and parts of Power Unit.
Yes
Is there signal at Q417?
No
Check IC401, IC403, IC415 and IC416.
Yes
Is there signal at pin (1) of TP801?
No
Check IC404, IC405, Q410, Q412 and Q413.
Yes
Is there signal at pins (5), (6) and (7) of TP801?
No
Check IC801, IC803, Q812 and Q814.
Yes
Refer to TROUBLE SHOOTING for "PC I/F UNIT".

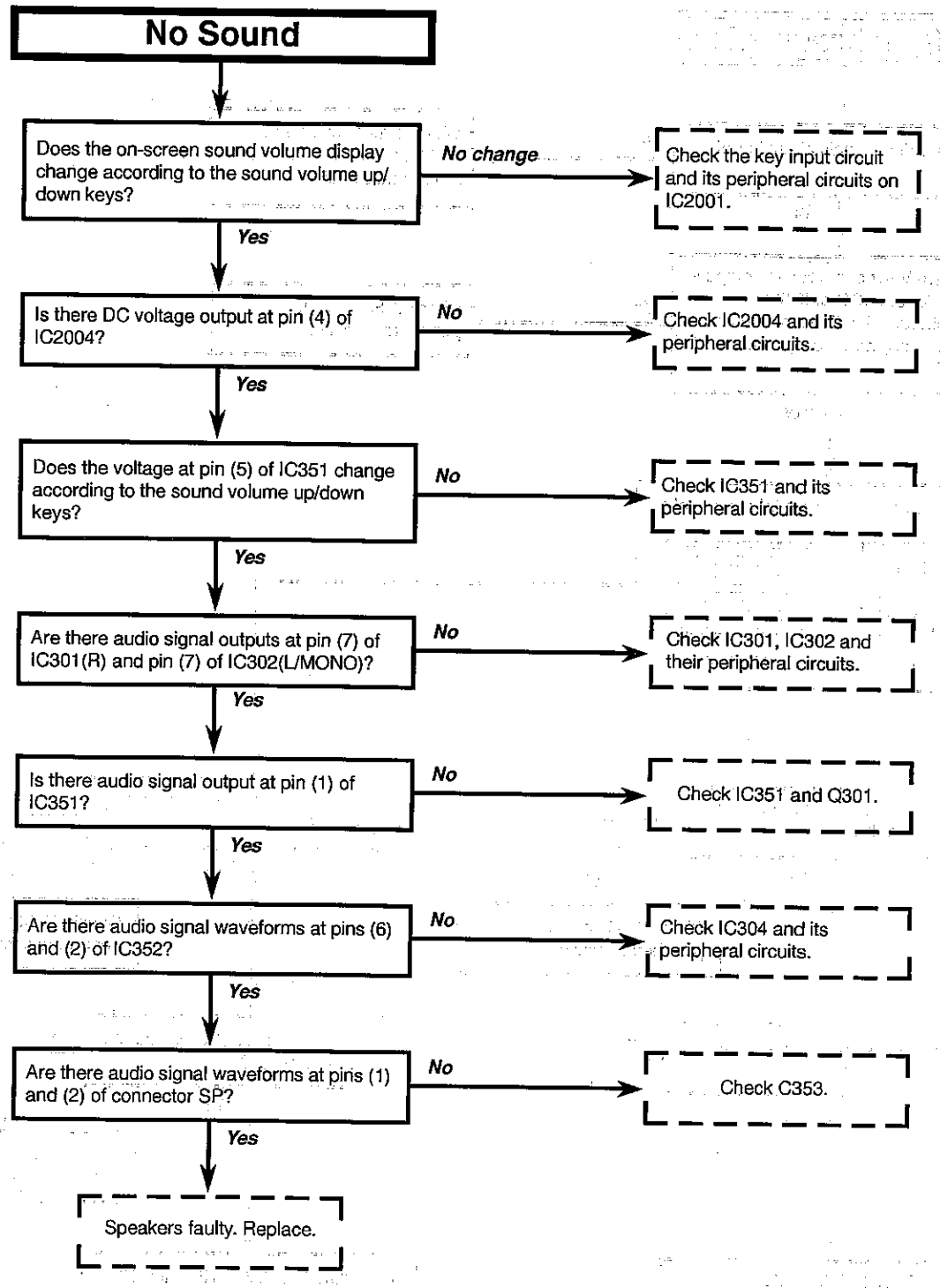
No Colour or Unusual Tint


Is there chroma signal input at pin (51) of IC801?
No
Check DL401, IC402 and Q409.
Yes
Check IC801 and their peripheral circuits (particularly, X802, C858, C856 and their peripheral circuits).

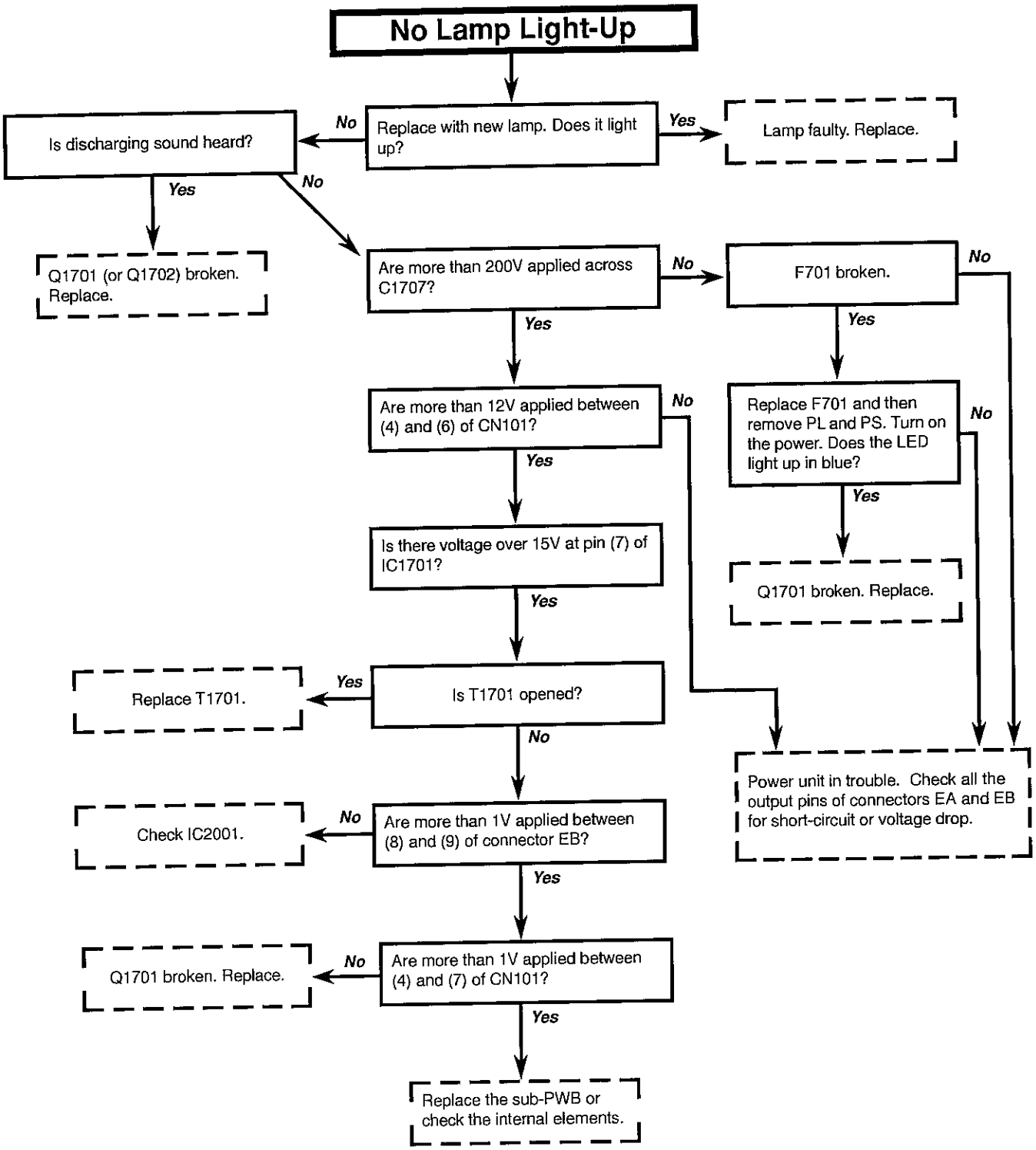
TROUBLE SHOOTING TABLE (Continued)


No Synchronization
Is there video signals at emitter of Q605?
No
Check IC601, Q601 thru Q606 and Q609 and their peripheral circuits.
Yes
Are there V sync and H sync outputs at pins (6) and (64) of IC801 respectively? Are these signals in sync (locked) with the input signal at pin (54)?
No
Check IC801 and its peripheral circuits.
Yes
Which is out of sync, horizontal or vertical?
Horizontal
Vertical
Vertical
Horizontal
Is there horizontal sync signal input at pin (49) of IC606?
No
Check IC606 and its peripheral circuits.
Yes
Is there sync signal between pins (7) and (12) o f IC606?
No
Check R639.
Yes
See TROUBLE SHOOTING for "PC I/F UNIT".
Is there vertical sync signal input at pin (12) of IC1508?
No
Check IC1508 and its peripheral circuits.
Yes
Is there sync signal between pins (9) and (12) of IC1508?
No
Check IC1508 and its peripheral circuits.
Yes
See TROUBLE SHOOTING for "PC I/F UNIT".

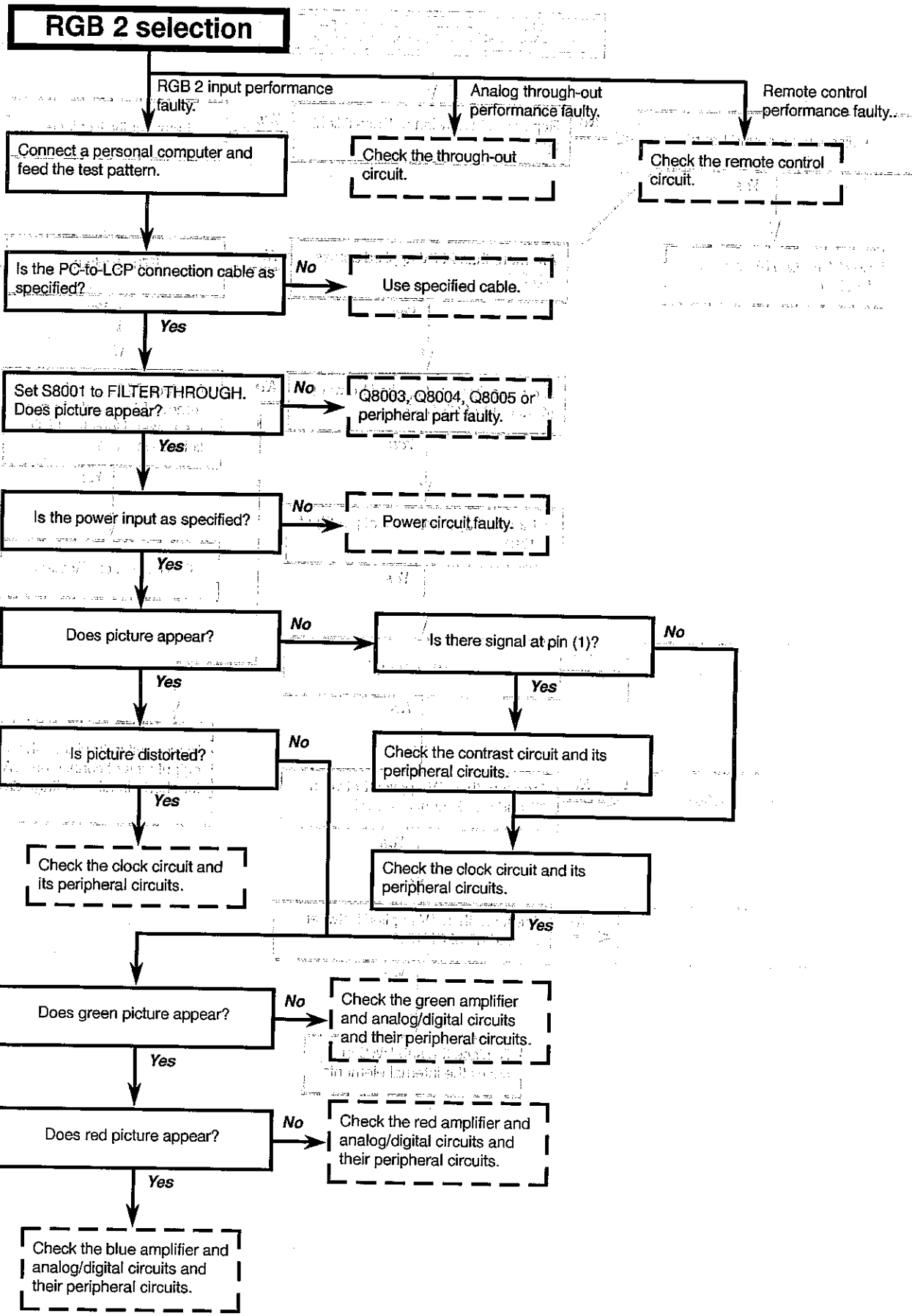
TROUBLE SHOOTING TABLE (Continued)


No Sound
Does the on-screen sound volume display change according to the sound volume up/down keys?
No change
Check the key input circuit and its peripheral circuits on IC2001.
Yes
Is there DC voltage output at pin (4) of IC2004?
No
Check IC2004 and its peripheral circuits.
Yes
Does the voltage at pin (5) of IC351 change according to the sound volume up/down keys?
No
Check IC351 and its peripheral circuits.
Yes
Are there audio signal outputs at pin (7) of IC301(R) and pin (7) of IC302(L/MONO)?
No
Check IC301, IC302 and their peripheral circuits.
Yes
Is there audio signal output at pin (1) of IC351?
No
Check IC351 and Q301.
Yes
Are there audio signal waveforms at pins (6) and (2) of IC352?
No
Check IC304 and its peripheral circuits.
Yes
Are there audio signal waveforms at pins (1) and (2) of connector SP?
No
Check C353.
Yes
Speakers faulty. Replace.

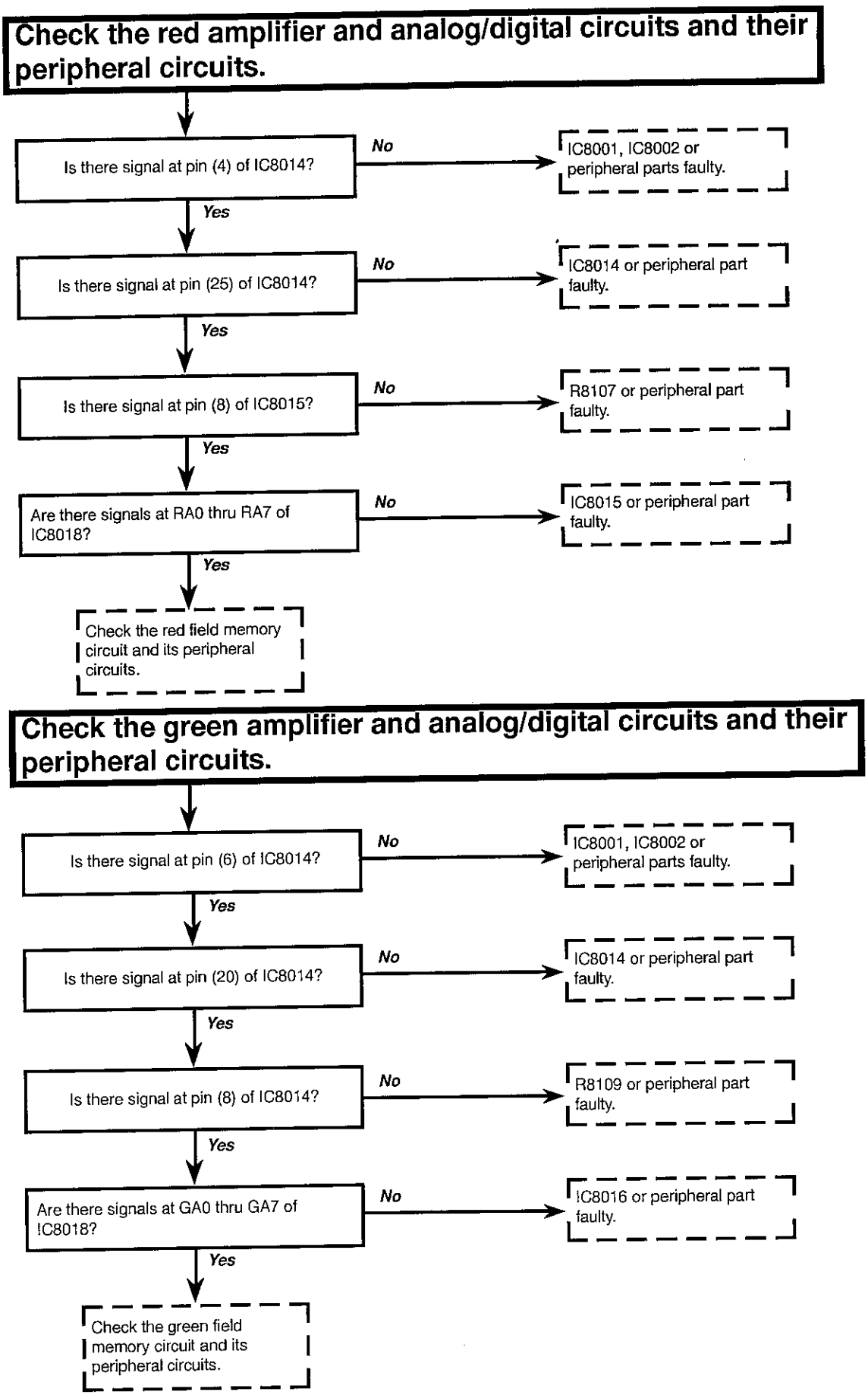
TROUBLE SHOOTING TABLE (Continued)


No Lamp Light-Up
Replace with new lamp. Does it light up?
No
Yes
Lamp faulty. Replace.
Is discharging sound heard?
Yes
No
Q1701 (or Q1702) broken. Replace.
Are more than 200V applied across C1707?
No
F701 broken.
No
Yes
Yes
Are more than 12V applied between (4) and (6) of CN101?
No
Replace F701 and then remove PL and PS. Turn on the power. Does the LED light up in blue?
No
Yes
Yes
Is there voltage over 15V at pin (7) of IC1701?
Q1701 broken. Replace.
Yes
Replace T1701.
Yes
Is T1701 opened?
No
Power unit in trouble. Check all the output pins of connectors EA and EB for short-circuit or voltage drop.
Check IC2001.
No
Are more than 1V applied between (8) and (9) of connector EB?
Yes
Q1701 broken. Replace.
No
Are more than 1V applied between (4) and (7) of CN101?
Yes
Replace the sub-PWB or check the internal elements.

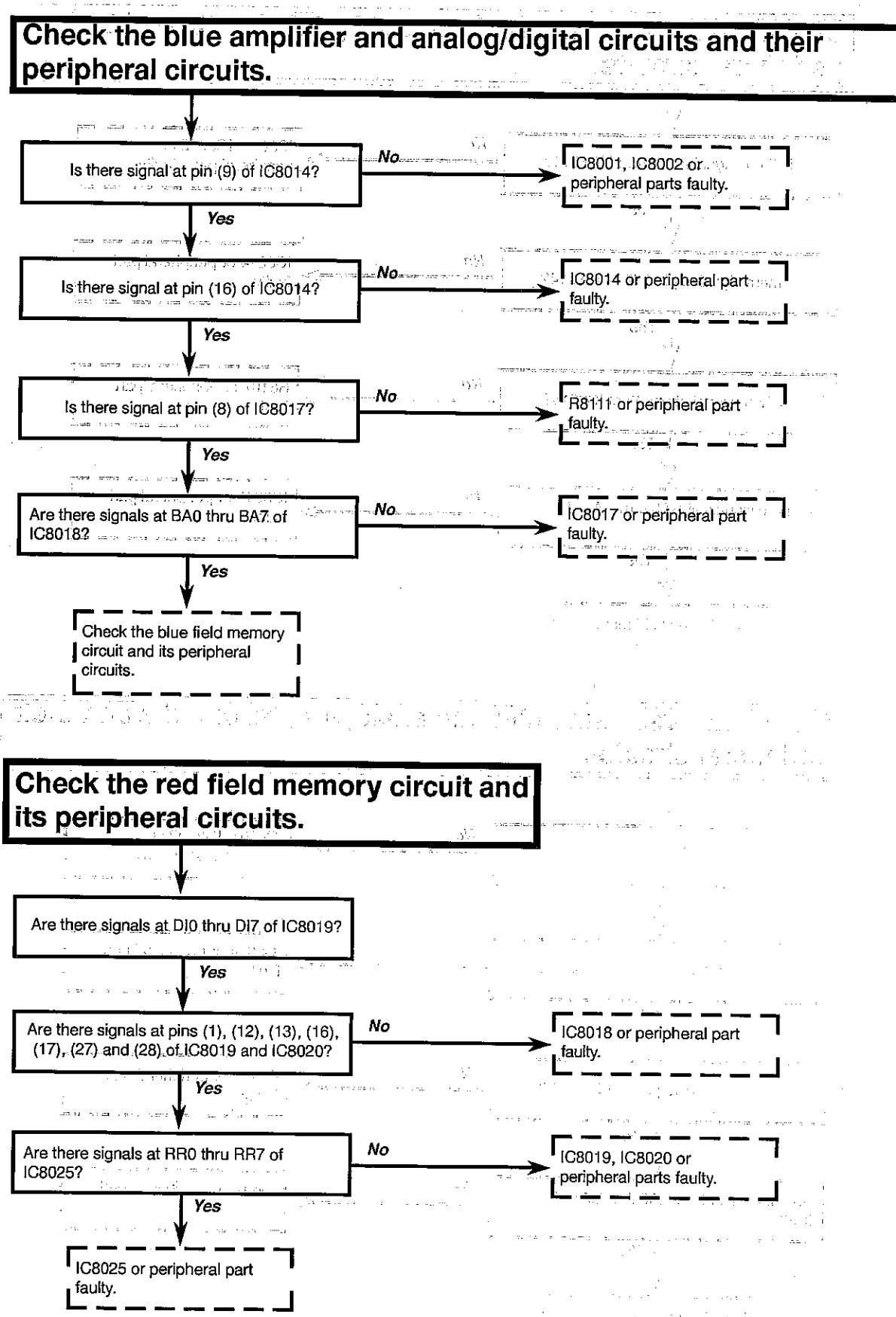
TROUBLE SHOOTING FOR PC/IF UNIT


RGB 2 selection
RGB 2 input performance faulty.
Analog through-out performance faulty.
Remote control performance faulty.
Connect a personal computer and feed the test pattern.
Check the through-out circuit.
Check the remote control circuit.
Is the PC-to-LCP connection cable as specified?
No
Use specified cable.
Yes
Set S8001 to FILTER THROUGH. Does picture appear?
No
Q8003, Q8004, Q8005 or peripheral part faulty.
Yes
Is the power input as specified?
No
Power circuit faulty.
Yes
Does picture appear?
No
Is there signal at pin (1)?
No
Yes
Yes
Is picture distorted?
No
Check the contrast circuit and its peripheral circuits.
Yes
Check the clock circuit and its peripheral circuits.
Check the clock circuit and its peripheral circuits.
Yes
Does green picture appear?
No
Check the green amplifier and analog/digital circuits and their peripheral circuits.
Yes
Does red picture appear?
No
Check the red amplifier and analog/digital circuits and their peripheral circuits.
Yes
Check the blue amplifier and analog/digital circuits and their peripheral circuits.

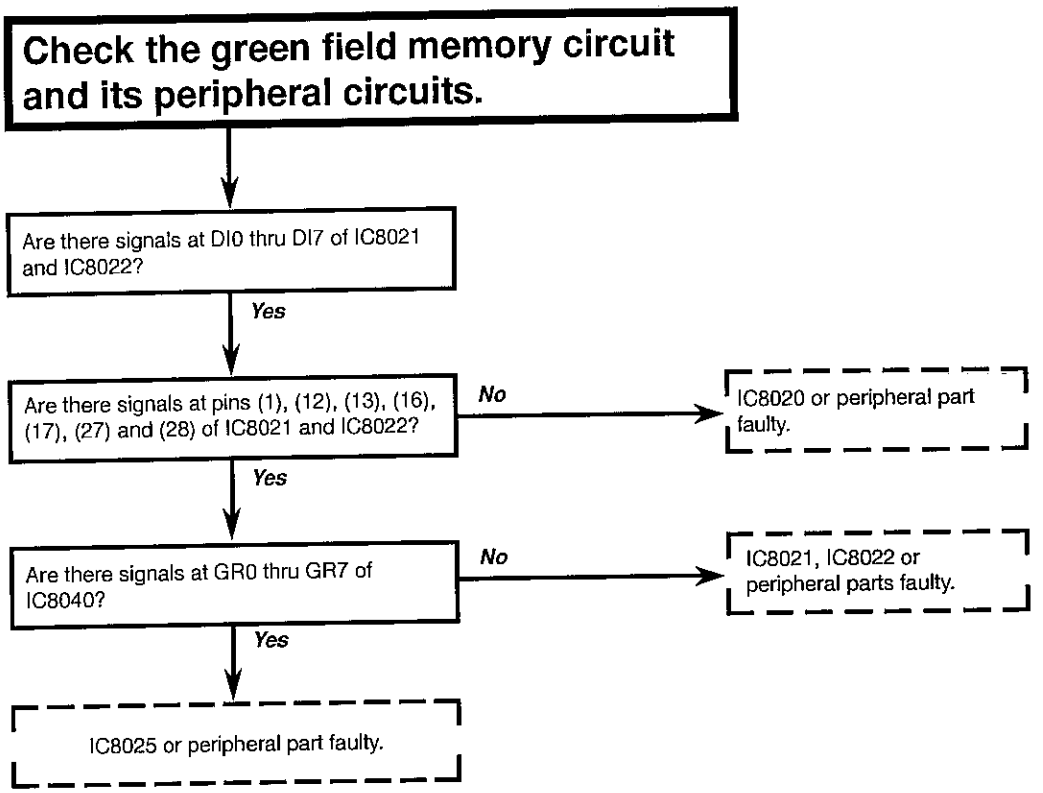
TROUBLE SHOOTING FOR PC/IF UNIT (Continued)

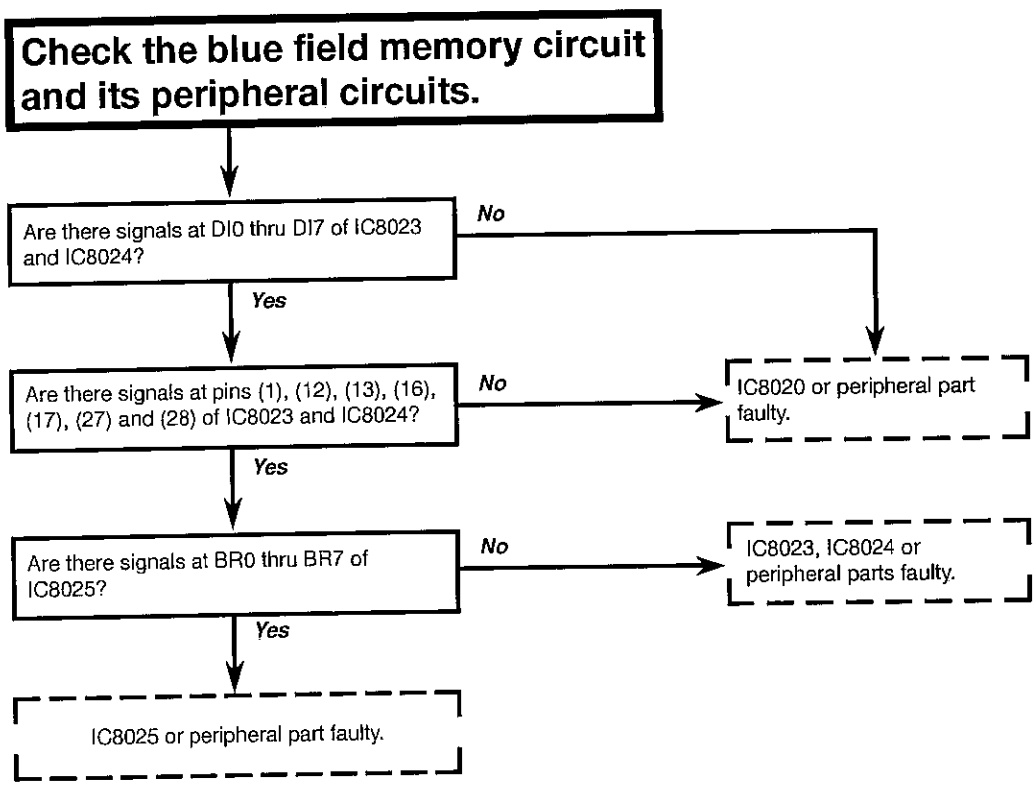

Check the red amplifier and analog/digital circuits and their peripheral circuits.
Is there signal at pin (4) of IC8014?
No
IC8001, IC8002 or peripheral parts faulty.
Yes
Is there signal at pin (25) of IC8014?
No
IC8014 or peripheral part faulty.
Yes
Is there signal at pin (8) of IC8015?
No
R8107 or peripheral part faulty.
Yes
Are there signals at RA0 thru RA7 of IC8018?
No
IC8015 or peripheral part faulty.
Yes
Check the red field memory circuit and its peripheral circuits.
Check the green amplifier and analog/digital circuits and their peripheral circuits.
Is there signal at pin (6) of IC8014?
No
IC8001, IC8002 or peripheral parts faulty.
Yes
Is there signal at pin (20) of IC8014?
No
IC8014 or peripheral part faulty.
Yes
Is there signal at pin (8) of IC8014?
No
R8109 or peripheral part faulty.
Yes
Are there signals at GA0 thru GA7 of IC8018?
No
IC8016 or peripheral part faulty.
Yes
Check the green field memory circuit and its peripheral circuits.

TROUBLE SHOOTING FOR PC/IF UNIT (Continued)

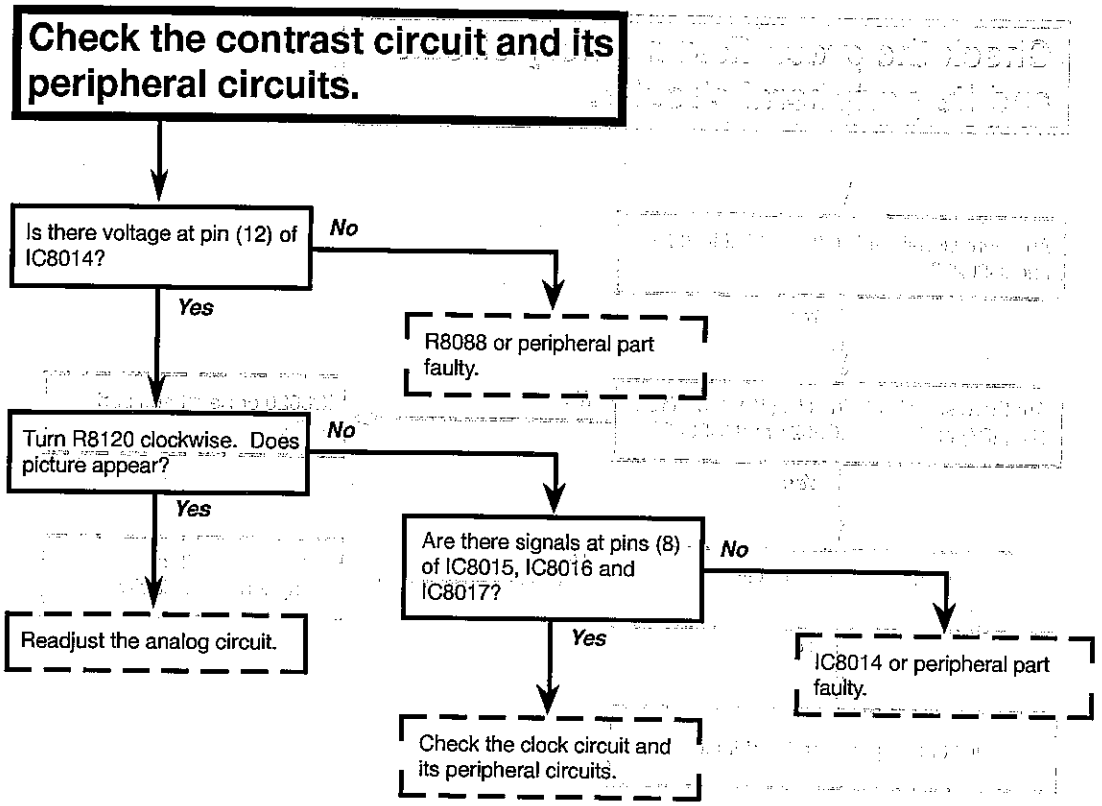

Check the blue amplifier and analog/digital circuits and their peripheral circuits.
Is there signal at pin (9) of IC8014?
No
IC8001, IC8002 or peripheral parts faulty.
Yes
Is there signal at pin (16) of IC8014?
No
IC8014 or peripheral part faulty.
Yes
Is there signal at pin (8) of IC8017?
No
R8111 or peripheral part faulty.
Yes
Are there signals at BA0 thru BA7 of IC8018?
No
IC8017 or peripheral part faulty.
Yes
Check the blue field memory circuit and its peripheral circuits.
Check the red field memory circuit and its peripheral circuits.
Are there signals at DI0 thru DI7 of IC8019?
Yes
Are there signals at pins (1), (12), (13), (16), (17), (27) and (28) of IC8019 and IC8020?
No
IC8018 or peripheral part faulty.
Yes
Are there signals at RR0 thru RR7 of IC8025?
No
IC8019, IC8020 or peripheral parts faulty.
Yes
IC8025 or peripheral part faulty.

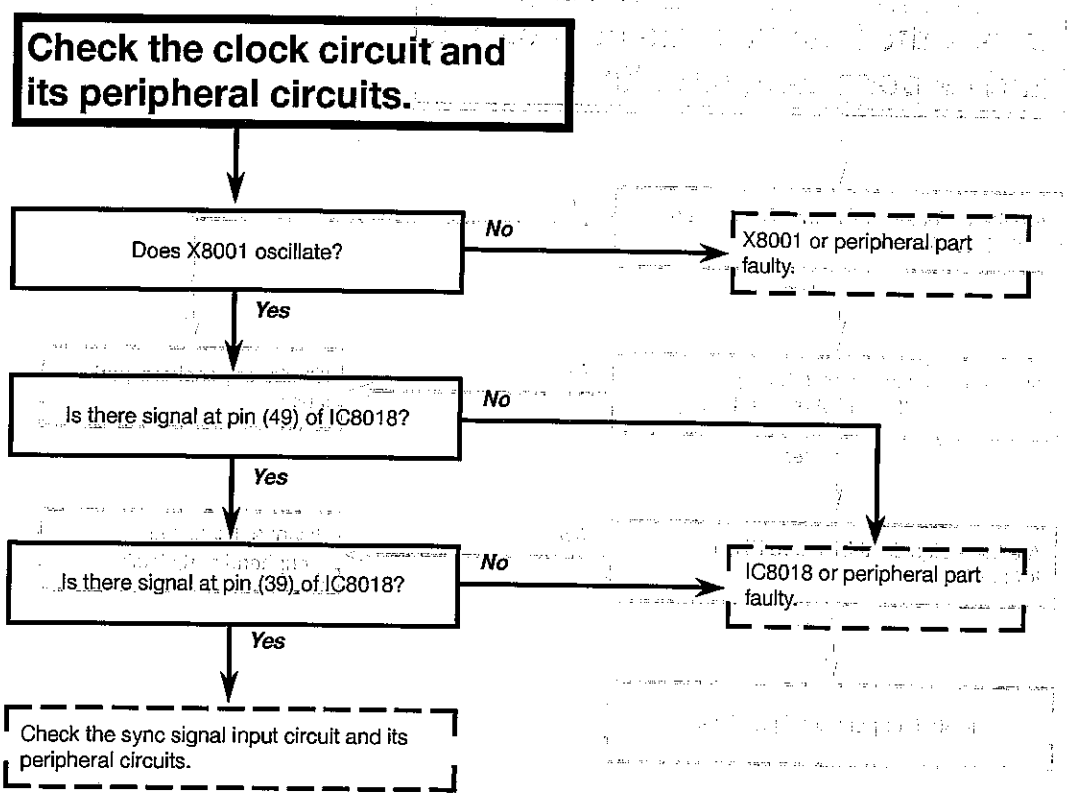
TROUBLE SHOOTING FOR PC/IF UNIT (Continued)


Check the green field memory circuit and its peripheral circuits.
Are there signals at DI0 thru DI7 of IC8021 and IC8022?
Yes
Are there signals at pins (1), (12), (13), (16), (17), (27) and (28) of IC8021 and IC8022?
No
IC8020 or peripheral part faulty.
Yes
Are there signals at GR0 thru GR7 of IC8040?
No
IC8021, IC8022 or peripheral parts faulty.
Yes
IC8025 or peripheral part faulty.

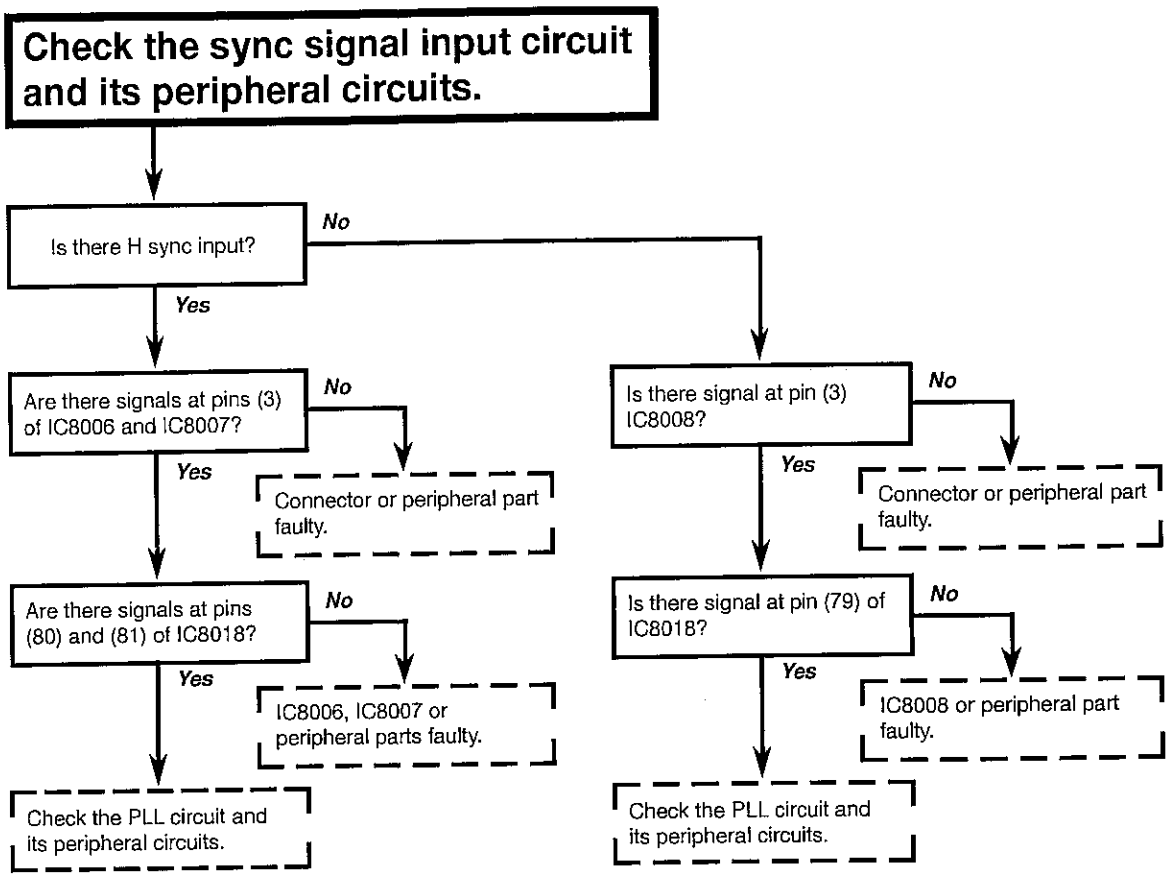

Check the blue field memory circuit and its peripheral circuits.
Are there signals at DI0 thru DI7 of IC8023 and IC8024?
No
Yes
Are there signals at pins (1), (12), (13), (16), (17), (27) and (28) of IC8023 and IC8024?
No
IC8020 or peripheral part faulty.
Yes
Are there signals at BR0 thru BR7 of IC8025?
No
IC8023, IC8024 or peripheral parts faulty.
Yes
IC8025 or peripheral part faulty.

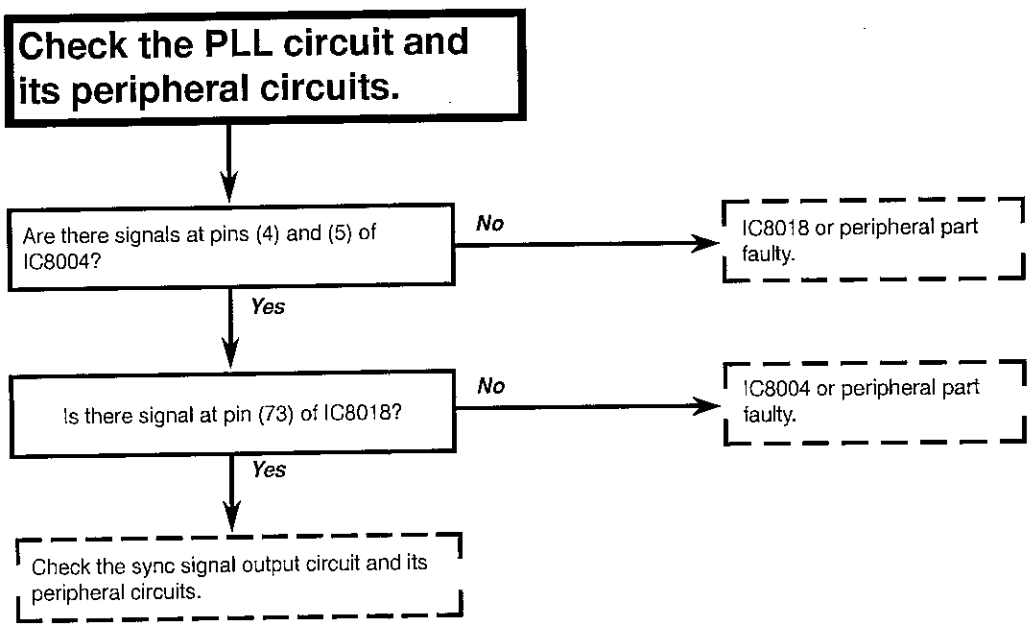
TROUBLE SHOOTING FOR PC/IF UNIT (Continued)


Check the contrast circuit and its peripheral circuits.
Is there voltage at pin (12) of IC8014?
No
Yes
R8088 or peripheral part faulty.
Turn R8120 clockwise. Does picture appear?
No
Yes
Readjust the analog circuit.
Are there signals at pins (8) of IC8015, IC8016 and IC8017?
No
Yes
IC8014 or peripheral part faulty.
Check the clock circuit and its peripheral circuits.

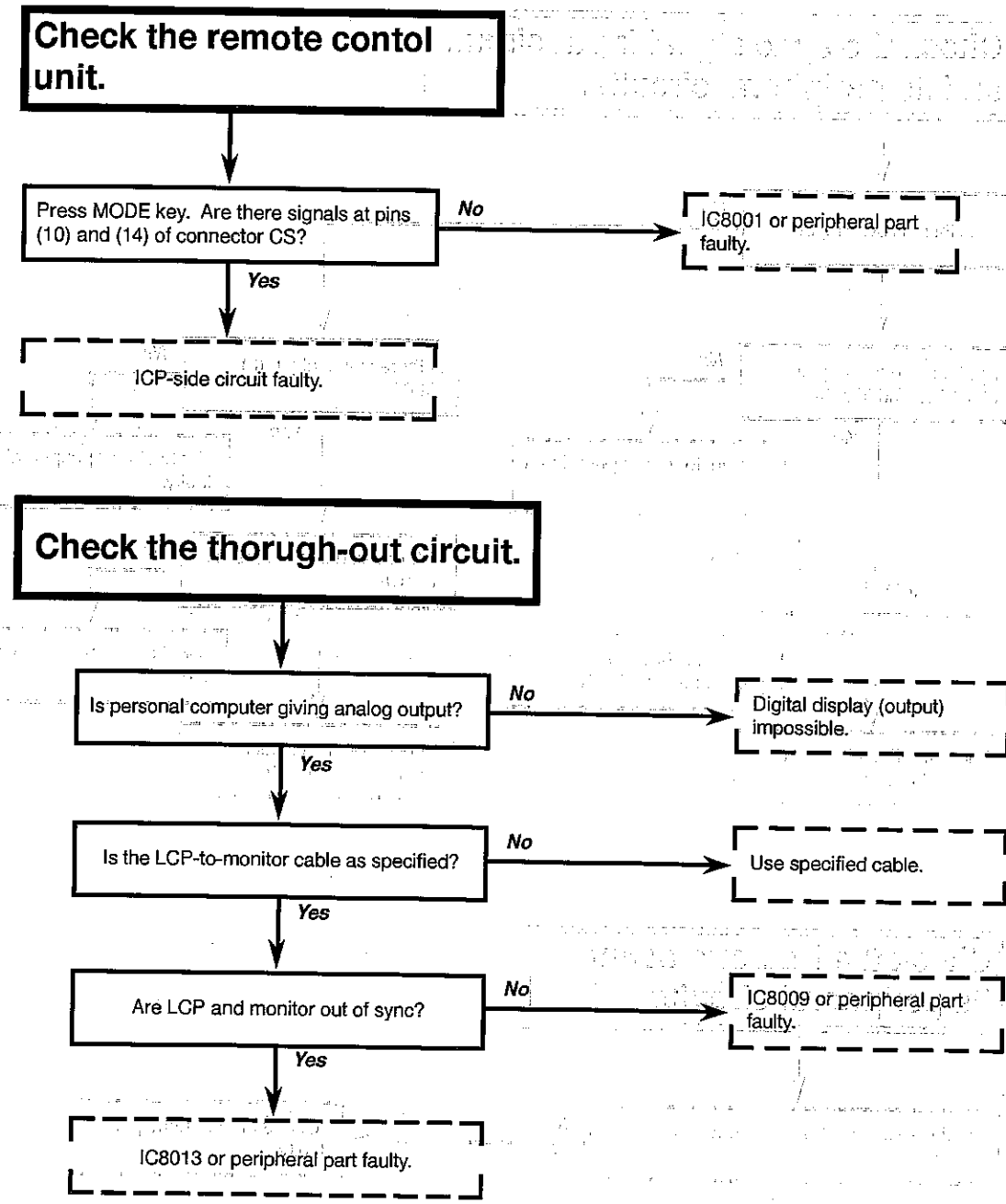

Check the clock circuit and its peripheral circuits.
Does X8001 oscillate?
No
Yes
X8001 or peripheral part faulty.
Is there signal at pin (49) of IC8018?
No
Yes
Is there signal at pin (39) of IC8018?
No
Yes
IC8018 or peripheral part faulty.
Check the sync signal input circuit and its peripheral circuits.

TROUBLE SHOOTING FOR PC/IF UNIT (Continued)


Check the sync signal input circuit and its peripheral circuits.
Is there H sync input?
No
Yes
Are there signals at pins (3) of IC8006 and IC8007?
No
Yes
Connector or peripheral part faulty.
Are there signals at pins (80) and (81) of IC8018?
No
Yes
IC8006, IC8007 or peripheral parts faulty.
Check the PLL circuit and its peripheral circuits.
Is there signal at pin (3) IC8008?
No
Yes
Connector or peripheral part faulty.
Is there signal at pin (79) of IC8018?
No
Yes
IC8008 or peripheral part faulty.
Check the PLL circuit and its peripheral circuits.


Check the PLL circuit and its peripheral circuits.
Are there signals at pins (4) and (5) of IC8004?
No
IC8018 or peripheral part faulty.
Yes
Is there signal at pin (73) of IC8018?
No
IC8004 or peripheral part faulty.
Yes
Check the sync signal output circuit and its peripheral circuits.

TROUBLE SHOOTING FOR PC/IF UNIT (Continued)



Technische Daten

Produkttyp	LCD-Projektor
Modell	XG-3700E
VIDEOSYSSTEM	PAL/SECAM/NTSC 3.58/NTSC 4.43
Wiedergabeverfahren	LCD-Projektionspanel × 1, optisches RGB-Verschlußverfahren
LCD-Projektionspanel	
Panelgröße	16,3 cm (6,4 Zoll) (97,5 mm [H] × 130 mm [B])
Wiedergabeverfahren	Durchlässiges TN-Flüssigkristall-Panel
Treiberverfahren	TFT (Dünnfilmtransistor) Aktivmatrix-Treiberverfahren
Anzahl der Bildpunkte	307.200 Bildpunkte (640 [W] x 480 [V])
Objektiv	F4,4, f = 218 mm
Projektionslampe	350 W Metalldampf-Entladungslampe
Kontrastverhältnis	100:1
Videoeingangssignal	RCA-Anschluß: VIDEO, gemischtes Video, 1 Vp-p, negatives Sync.-Signal, 75 Ohm terminiert RCA-Anschluß: AUDIO, 0,5V weniger als 22 kOhm
Videoeingangssignal	4-pol. Mini-DIN-Steckanschluß Y (Luminanz-Signal): 1 Vs-s, negatives Sync.-Signal, 75 Ohm terminiert C (Chrominanz-Signal): Farbsynchronimpuls 0,286 Vp-p, 75 Ohm terminiert
Audioausgangssignal RCA-Anschluß	AUDIO, 0,5 Vrms weniger als 2.2 kOhm
Horizontale Auflösung	500 Fernsehzeilen (Videoeingang)
Audioausgang	5 W (mono)
RGB-Computereingangssignal	
Datensignal	15-pol. Mini-D-Typ-Steckanschluß: Getrennter analoger RGB-Signaleingang: 0,7 Vs-s, positiv, 75 Ohm terminiert
Audiosignal	Stereo-Minibuchse: AUDIO, 0,5 Vrms, mehr als 22 kOhm (Stereo)
Horizontales Sync.-Signal	TTL-Pegelsignal (positiv oder negativ) oder gemischtes Sync.-Signal (nur Macintosh)
Vertikales Sync.-Signal	Wie oben
Lautsprecher	8 cm, rund
Nennspannung	Wechselstromspannung 200–240 V
Nennfrequenz	60/50 Hz
Nennaufnahme	440 W
Betriebstemperatur	5°C - 40°C
Lagertemperatur	– 20°C - 55°C
Gehäuse	Kunststoff
Abmessungen (W x D x H)	351 x 499 x 222 mm
Gewicht	10,2 kg
Mitgeliefertes Zubehör	Fernbedienung, zwei AAA-Batterien, Ersatz-Luftfilter, VGA-Signalkabel (3m), Mac/VGA-Adapter, Netzkabel, Objektivkappe (installiert)
Ersatzteile	Fernbedienung, Luftfilter, VGA-Kabel, Mac/VGA-Adapter, Netzkabel

Dieser Projektor ist mit einern LCD (Flüssigkristallanzeige)-Projektionspanel ausgestattet. Diese neuartigen Projektionspanele enthalten TFT's (Dünnfilm-Transistoren) mit insgesamt 307.200 Bildpunkten. (RGB-Trio) TFTs (Dünnfilmtransistoren). Bei allen technologisch fortschrittlichen, elektronischen Geräten, z.B. Großbild-Fernsehern, Videosystemen oder Videokameras, sind bestimmte Toleranzgrenzen für die Funktionen gegeben. Die von Sharp akzeptierte Toleranzgrenze erlaubt insgesamt 35 inaktive TFTs, die als beleuchtete Punkte auf der Bildwand wiedergegeben werden.
Dies hat keinen Einfluß auf die Bildqualität und die Lebenserwartung des Gerätes.

Änderungen der technischen Daten vorbehalten.

HINWEISE FÜR DEN WARTUNGSTEHNIKER

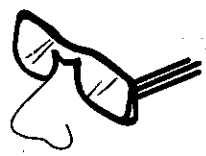
VORSICHTSMASSNAHMEN BEI UV-STRAHLUNG

Die Lichtquelle (Metallhalogenidlampe) im LCD-Projektor erzeugt geringe Anteile von UV-Strahlung.

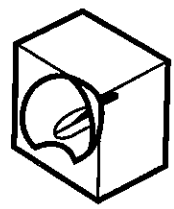
DIREKTEN AUGEN-UND HAUTKONTAKT VERMEDIEN.

Folgende Sicherheitshinweise sind zu befolgen:

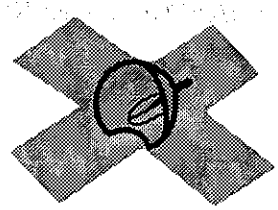
1. Bei der Wartung des Geräts muß bei eingeschalteter Lampe eine Sonnenschutzbrille getragen werdne. Der obere Deckel ist bei der Wartung zu enyfernen.



2. Die Lampe darf nicht außerhalb des Lampengehäuses verwendet werden.



3. Bei entferntem oberen Deckel nicht läanger als 2 Stunden betreiben.



Vorsichtsmaßnahmen bezüglich UV-Strahlung und Mitteldrucklampen

1. Vor dem Auswechseln der Lampe unbedingt den Netzstecker ziehen.
2. Das Gerät vor dem Durchführen von Wartungsarbeiten eine Stunde abkühlen lassen.
3. Nur gegen eine Lampe der gleichen Sorte auswechseln. Sorte CLMPF0037DE01, 65V/350W.
4. Da die Lampe eine geringe UV-Strahlung aufweiat, sollte direkter Blickkontakt vermieden werden.
5. Die Mitteldrucklampe weist ein Explosionsrisiko auf. Die nachstehenden Einbauanweisungen beachten und die Lampe vorsichtig handhaben.

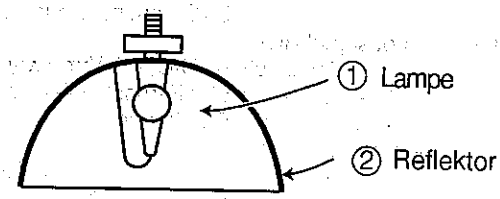
■ Auswechseln der Lampe

Hinweis:

Da die Lampe während des Betriebs extrem heiß wird, solltdas Auswechseln erst eine Stunde nach dem Ausschalten stattfinden (abkühlzeit).

Beim Anbringen der neuen Lampe die Birne unbedingt nicht berühen. Den Reflektor ② der Lampe beim Auswechseln halten.

[Nur das Original-Ersatzteil verwenden.]



GEFAHR! — Niemals die Spannungsversorgung ohne Lampe einschalten, um elektrische Schläge und Schäden des Gerätes zu vermeiden, da der Stabilisator beim Einschalten hohe Spannungen erzeugt.

VORSICHTSMASSNAHMEN BEI UV-STRAHLUNG (Fortgesetzt)

Während der Wartung ist die Lampenabdeckung an der Öffnung anzubringen. (Abb. 1)

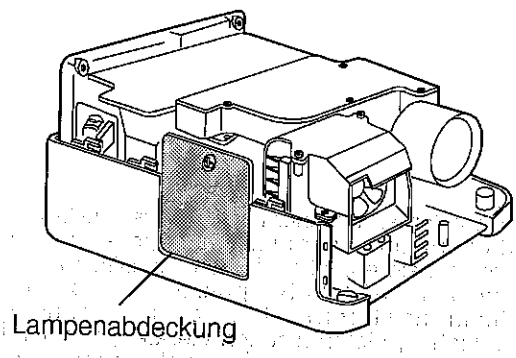
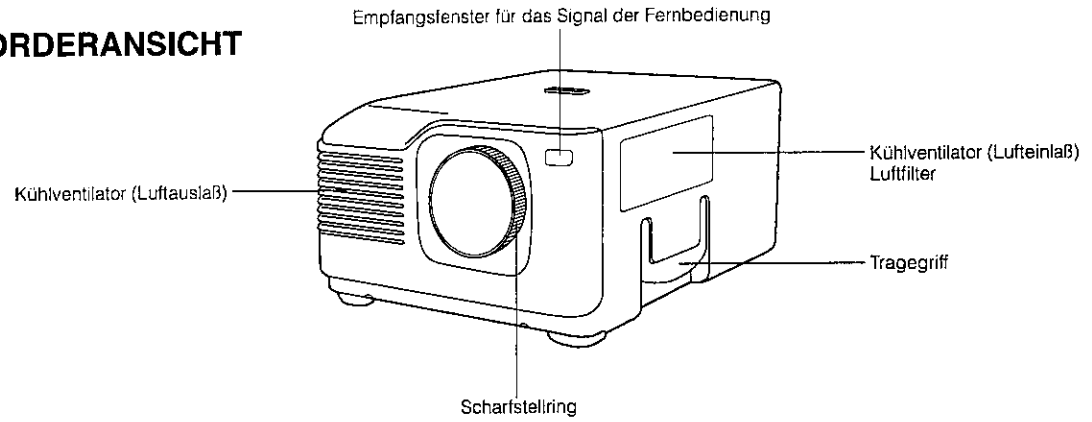


Abbildung 1.

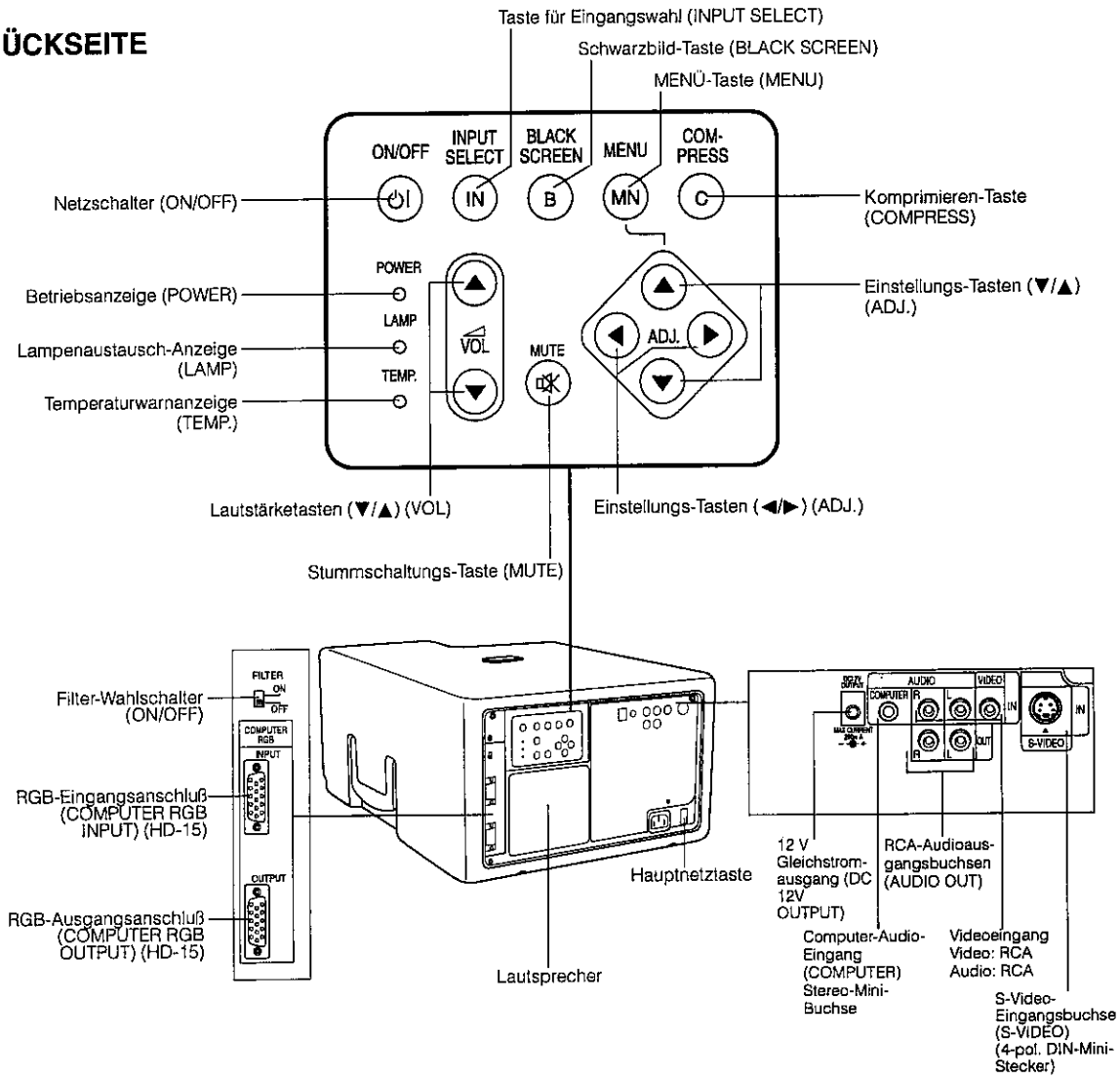
Lage der Bedienelemente

VORDERANSICHT



BEDIENFELD AUF DER SEITE DES PROJEKTORS

RÜCKSEITE

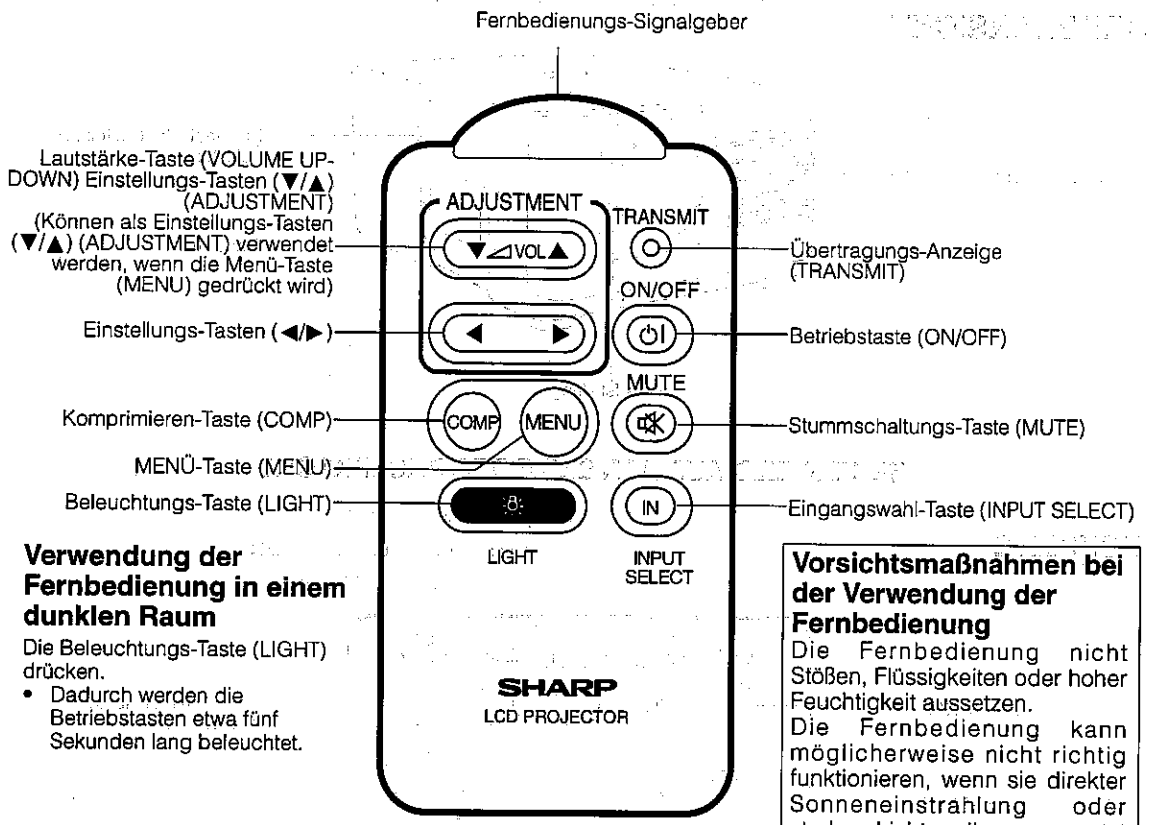


Hinweis:

- Wenn 200 mA oder mehr am 12 V Gleichstromausgang (DC 12V OUTPUT) abgenommen wird, schaltet eine Schutzschaltung automatisch den Projektor aus und stellt ihn auf die Bereitschafts-Betriebsart ein.

Fernbedienter Betrieb

FERNBEDIENUNG



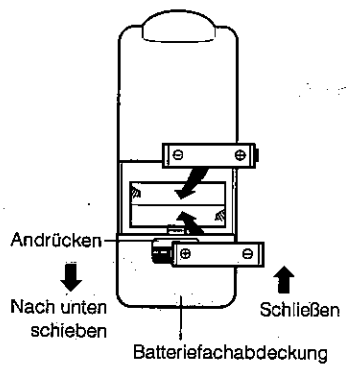
Verwendung der Fernbedienung in einem dunklen Raum

Die Beleuchtungs-Taste (LIGHT) drücken.

- Dadurch werden die Betriebstasten etwa fünf Sekunden lang beleuchtet.

Vorsichtsmaßnahmen bei der Verwendung der Fernbedienung

Die Fernbedienung nicht Stößen, Flüssigkeiten oder hoher Feuchtigkeit aussetzen.
Die Fernbedienung kann möglicherweise nicht richtig funktionieren, wenn sie direkter Sonneneinstrahlung oder starken Lichtquellen ausgesetzt ist. In diesem Fall sollte die Lichtquelle oder der LCD-Projektor verschoben werden.

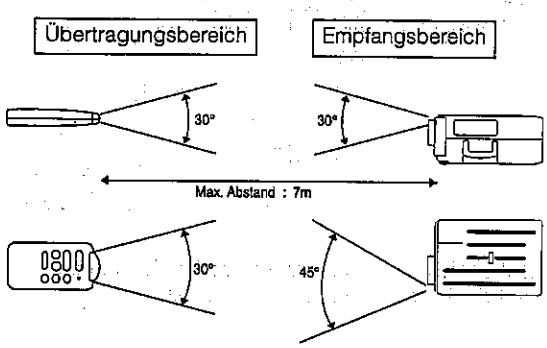


Einsetzen der Batterien

Die Batteriefachabdeckung wie gezeigt entfernen, zwei Batterien (Größe AAA) einsetzen und sicherstellen, daß die Polarität den Markierungen (+) und (−) im Batteriefach entspricht.

HINWEISE:
Eine falsche Verwendung kann die Batterien zum Auslaufen oder Explodieren bringen.

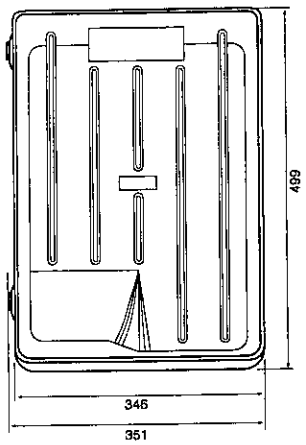
- Die Batterien unter Beachtung der (+) und (−) Pole wie gezeigt richtig einsetzen.
- Die Batterien aus der Fernbedienung entnehmen, wenn sie für längere Zeit nicht verwendet wird.
- Die Batterien immer sauber halten.
- Unterschiedliche Batteriearten nicht zusammen verwenden. Die Lebensdauer der neuen Batterien wird dadurch verkürzt und die alten Batterien können auslaufen.
- Verbrauchte Batterien sollten sofort entnommen werden, um Auslaufen und Beschädigungen zu vermeiden. Ausgelaufene Batterieflüssigkeit kann zu Hautirritationen führen. Ausgelaufene Batterieflüssigkeit mit einem Tuch entfernen.
- Wegen unterschiedlicher Lagerbedingungen können die mitgelieferten Batterien früher als angegeben verbraucht sein. Verbrauchte Batterien sollten so schnell wie möglich durch neue ausgetauscht werden.



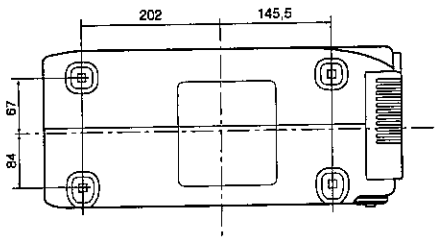
Verwendung der Fernbedienung

Die Fernbedienung wie gezeigt verwenden.

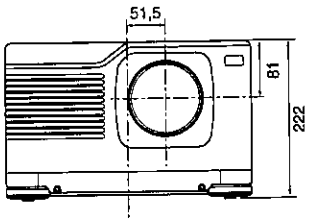
Abmessungen



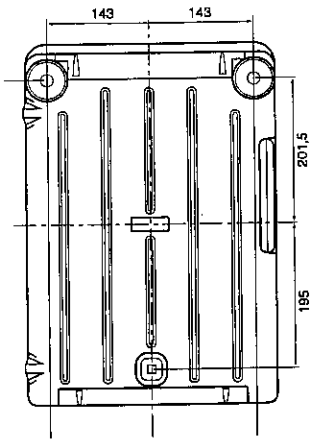
Ansicht von oben



Seitenansicht



Ansicht von vorne



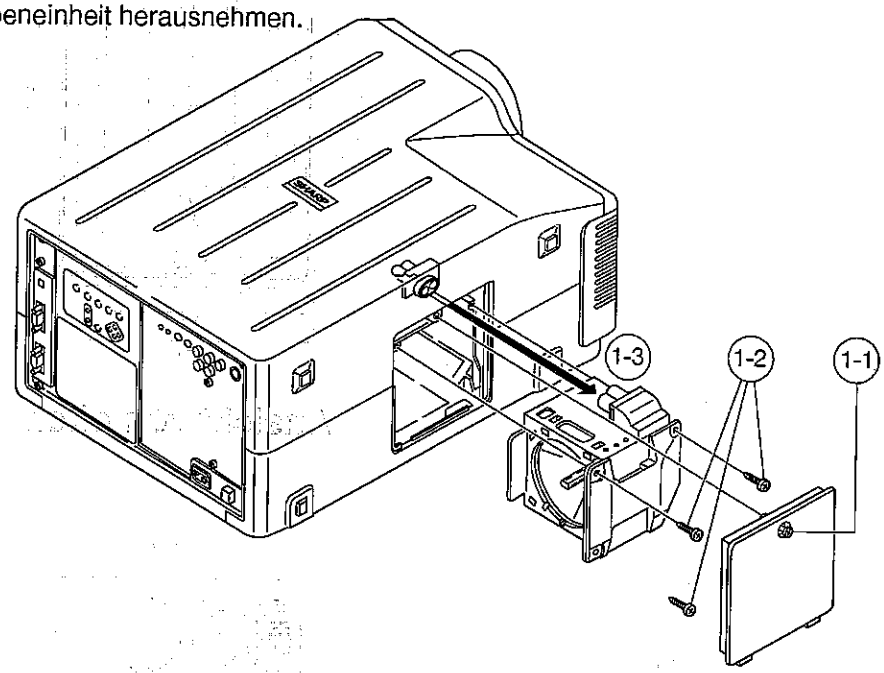
Ansicht von unten

[Einheit: mm]

ENTFERNEN VON WICHTIGEN KOMPONENTEN

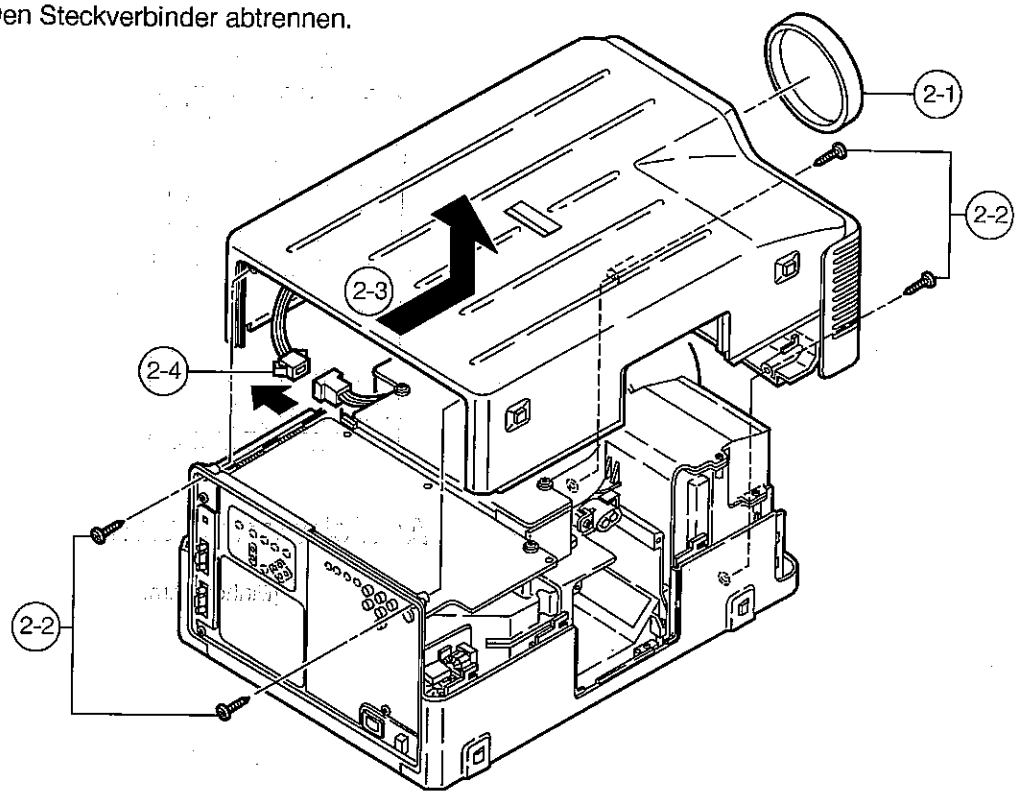
1. Entfernen der Lampeneinheit

1-1. Die Schraube von der Lampenabdeckung entfernen und die Abdeckung abnehmen.
1-2. Die drei Schrauben von der Lampeneinheit entfernen.
1-3. Die Lampeneinheit herausnehmen.

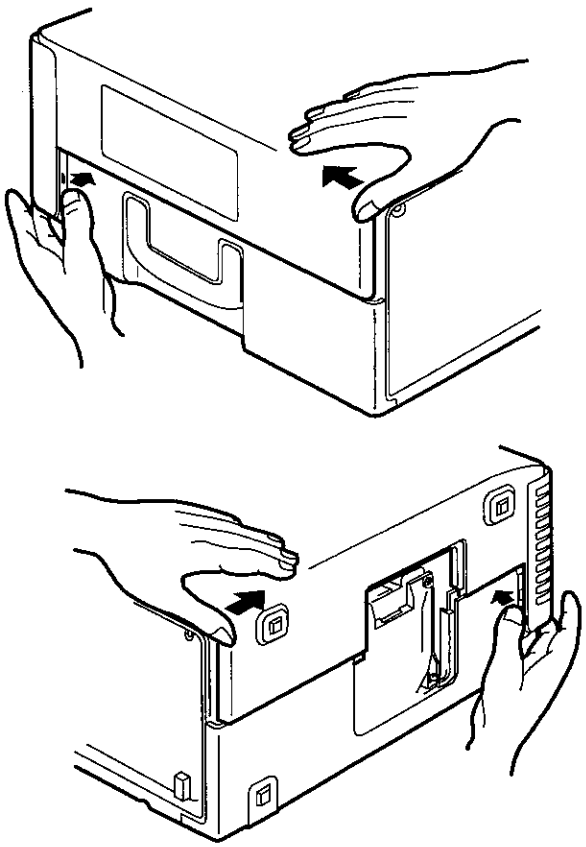


2. Entfernen des oberen und unteren Gehäuses

2-1. Die Objektivkappe abnehmen und das Objektiv so weit wie möglich zurückziehen.
2-2. Die vier Schrauben vom oberen Gehäuse entfernen.
2-3. Das obere Gehäuse um etwa 20 mm nach vorne schieben und dann entfernen.
2-4. Den Steckverbinder abtrennen.



Einzelheiten von Schritt 2-3



Aushaken des oberen Gehäuses

2-3-1. Mit der rechten Hand gegen den mit einem Pfeil gekennzeichneten Punkt an der Seite des oberen Gehäuses, an der sich der Griff befindet, drücken, und gleichzeitig mit der linken Hand gegen den mit einem Pfeil gekennzeichneten Punkt am unteren Gehäuse drücken. Den Haken mit dem Daumen nach unten halten, und das obere Gehäuse vorwärts schieben.

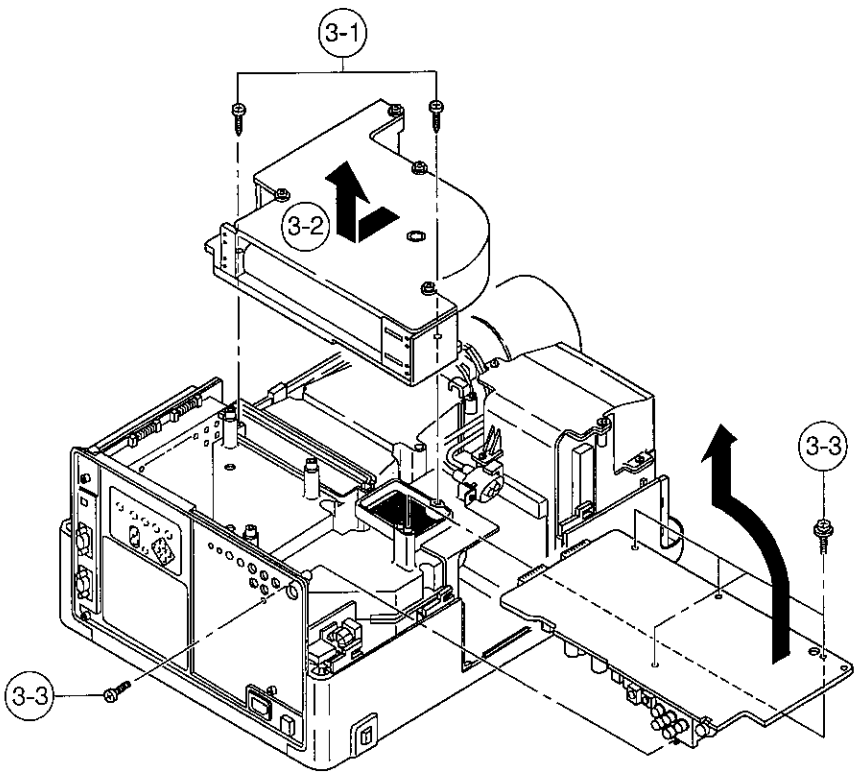
2-3-2. Mit der linken Hand gegen den mit einem Pfeil gekennzeichneten Punkt an der Seite des oberen Gehäuses, an der sich die Lampe befindet, drücken, und gleichzeitig mit der rechten Hand gegen den mit einem Pfeil gekennzeichneten Punkt am unteren Gehäuse drücken. Den Haken mit dem Daumen nach unten halten, und das obere Gehäuse um etwa 20 mm vorwärts schieben.

3. Entfernen des Gebläsekanals und der Haupteinheit

3-1. Die zwei Schrauben vom Gebläsekanal entfernen.

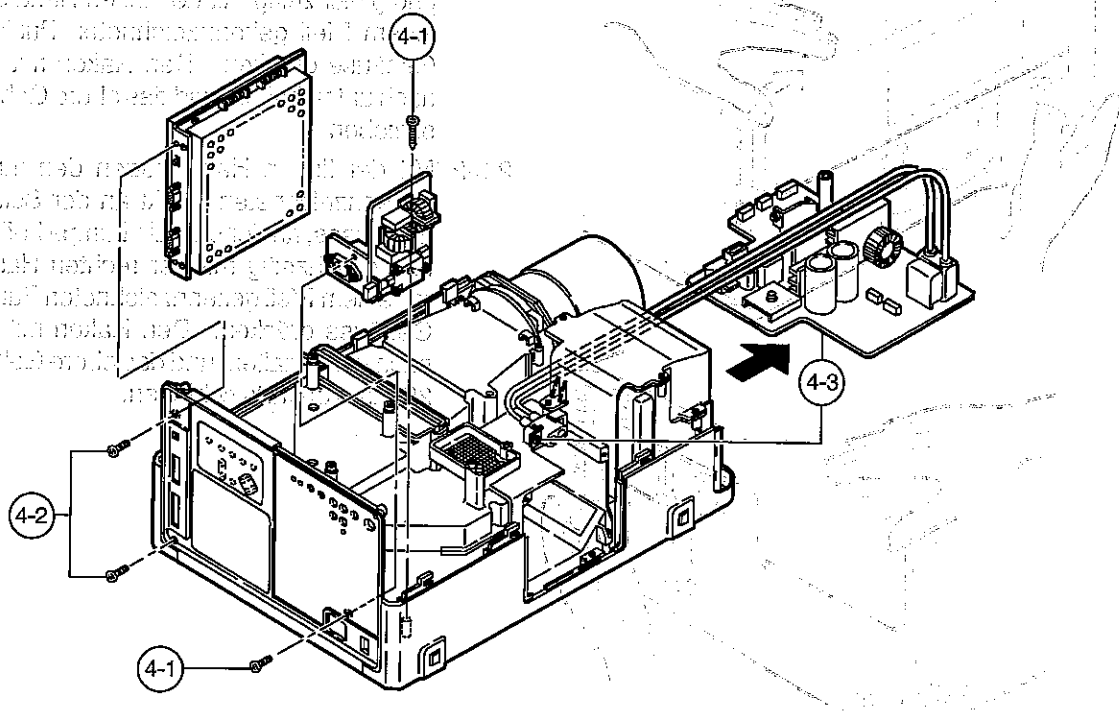
3-2. Die Rückseite des Gebläsekanals anheben, und den Gebläsekanal entfernen.

3-3. Die fünf Schrauben entfernen, mit denen die Haupteinheit befestigt ist.



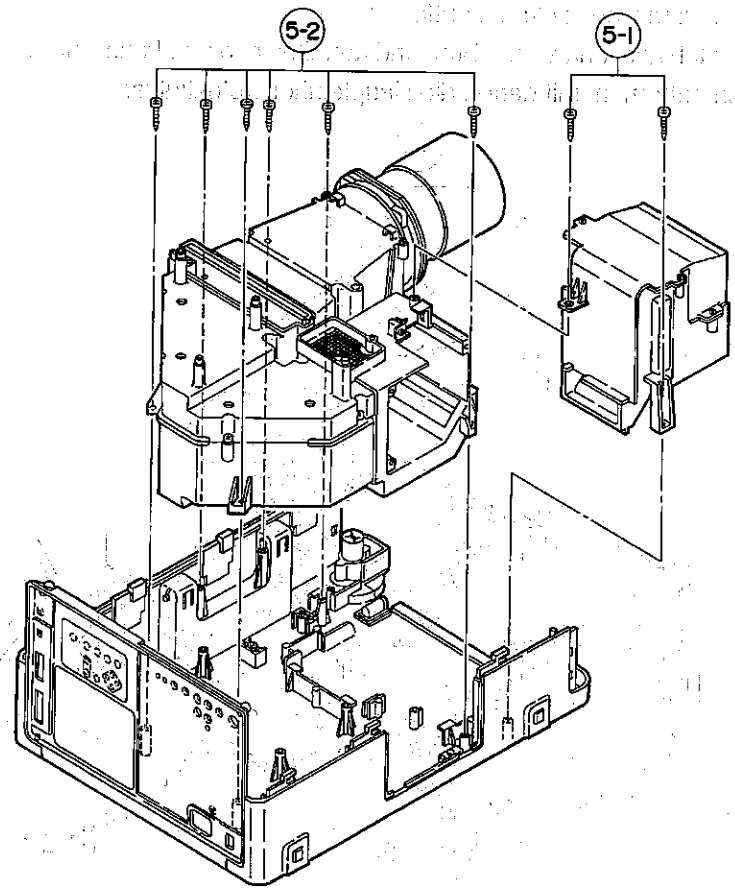
4. Entfernen der anderen Platinen

4-1. Die zwei Schrauben von der Netzschaltereinheit entfernen.
4-2. Die zwei Schrauben von der PC/Schnittstelleneinheit entfernen.
4-3. Die Schraube und die Netz-/Vorschalteinheit entfernen.

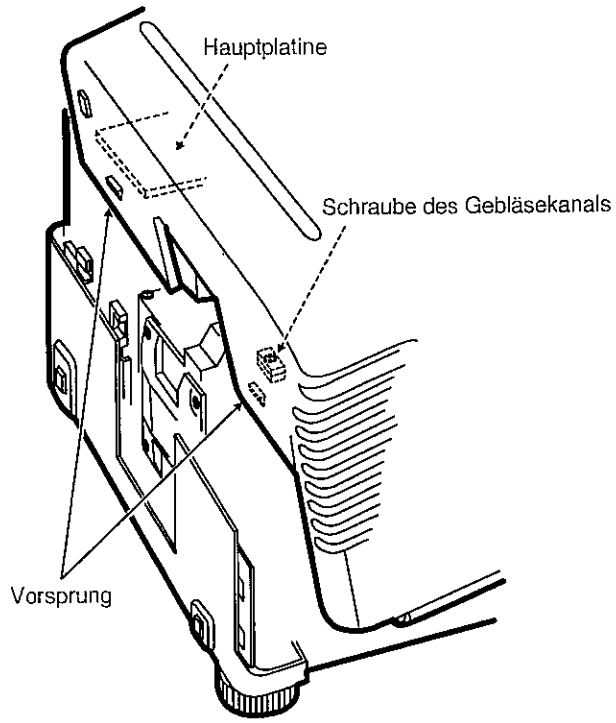


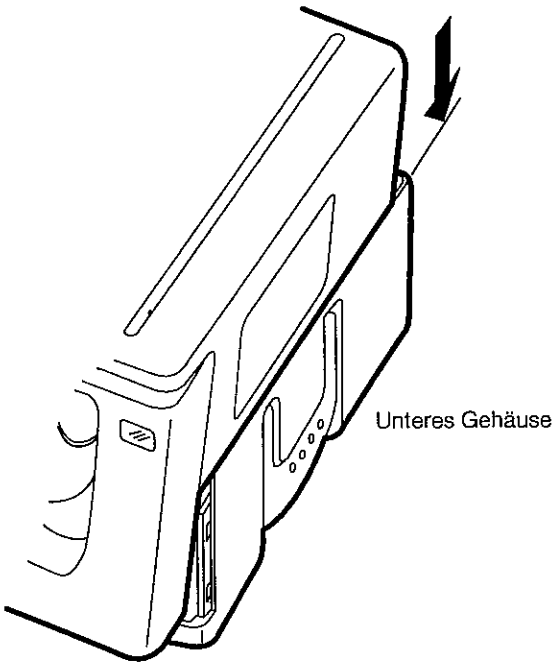
5. Herausnehmen des optischen Mechanismus

5-1. Die zwei Schrauben von der Gebläseeinheit entfernen und die Einheit abnehmen.
5-2. Die sechs Schrauben vom optischen Mechanismus entfernen und den Mechanismus abnehmen.



6. Anbringen der Baugruppe aus vorderem/oberem Gehäuse



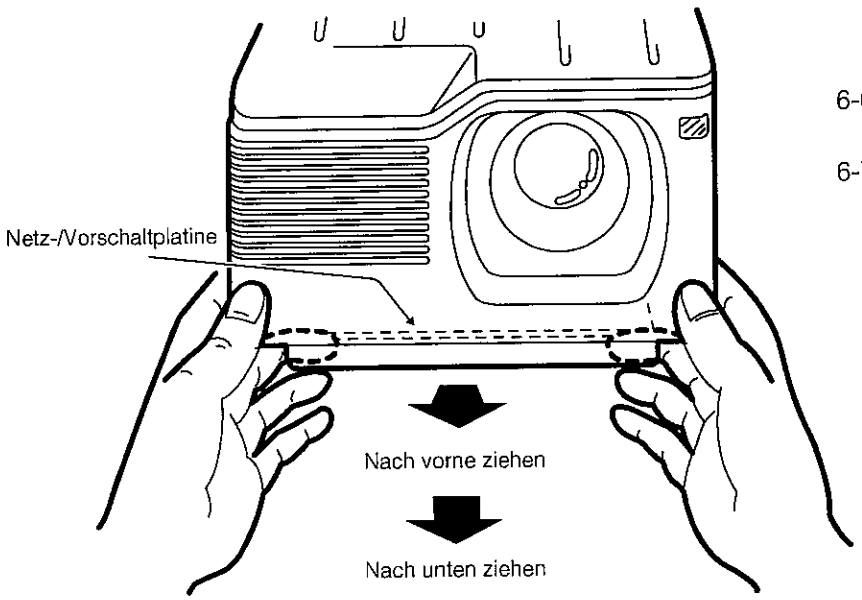


6-1. Das Objektiv so weit wie möglich zurückziehen.

6-2. Den Steckverbinder, der in Schritt 2-4 entfernt wurde, wieder an die Baugruppe aus vorderem/oberem Gehäuse anschließen.

6-3. Das obere Gehäuse so aufsetzen, daß seine Haken an der Lampenseite unter die Hauptplatine und den Gebläsekanal kommen.

6-4. Die Seite des oberen Gehäuses mit Griff nach unten zum unteren Gehäuse bringen.



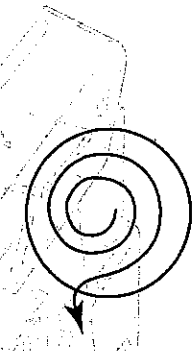
6-5. Die Finger in die Unterseite des vorderen Gehäuses stecken. Das vordere Gehäuse ein wenig vorwärts ziehen, bis die Netz-/Vorschaltplatine in das vordere Gehäuse kommt.

6-6. Die Baugruppe aus vorderem/oberem Gehäuse nach hinten schieben.

6-7. Die vier Schrauben anziehen, die in Schritt 2-2 entfernt wurden, um die Baugruppe aus vorderem/oberem Gehäuse zu befestigen.

■ Reinigung der Linsen und Spiegel

1. Reinigung der Linsen



• Reinigungsmittel:
Das Mischungsverhältnis von Alkohol und Äther je nach Umgebungstemperatur ändern.
Wenn die Flüssigkeit unmittelbar nach dem Wischen von der Oberfläche der Linse verdampft, weist sie das optimale Mischungsverhältnis auf.
Je mehr Äther verwendet wird, desto schneller verdampft die Flüssigkeit.

• **WARNUNG:** Äther ist eine flüchtige, leicht entflammbare Flüssigkeit. Beim Umgang damit ist äußerste Vorsicht geboten. Die Flüssigkeit und Dämpfe müssen von Flammen und Funken ferngehalten werden.

• Methode:
Gut ausgewaschene, gebleichte Baumwolle oder Reinigungspapier, das im Fachhandel erhältlich ist, verwenden. Die Linse mit Daumen und Zeigefinger zwischen der gebleichten Baumwolle halten, die mit der Flüssigkeit befeuchtet wurde. Die Linse umdrehen und die Oberfläche von der Mitte nach außen wischen, um Staub zu entfernen. Die vergütete Oberfläche darf nicht zu stark gerieben werden.

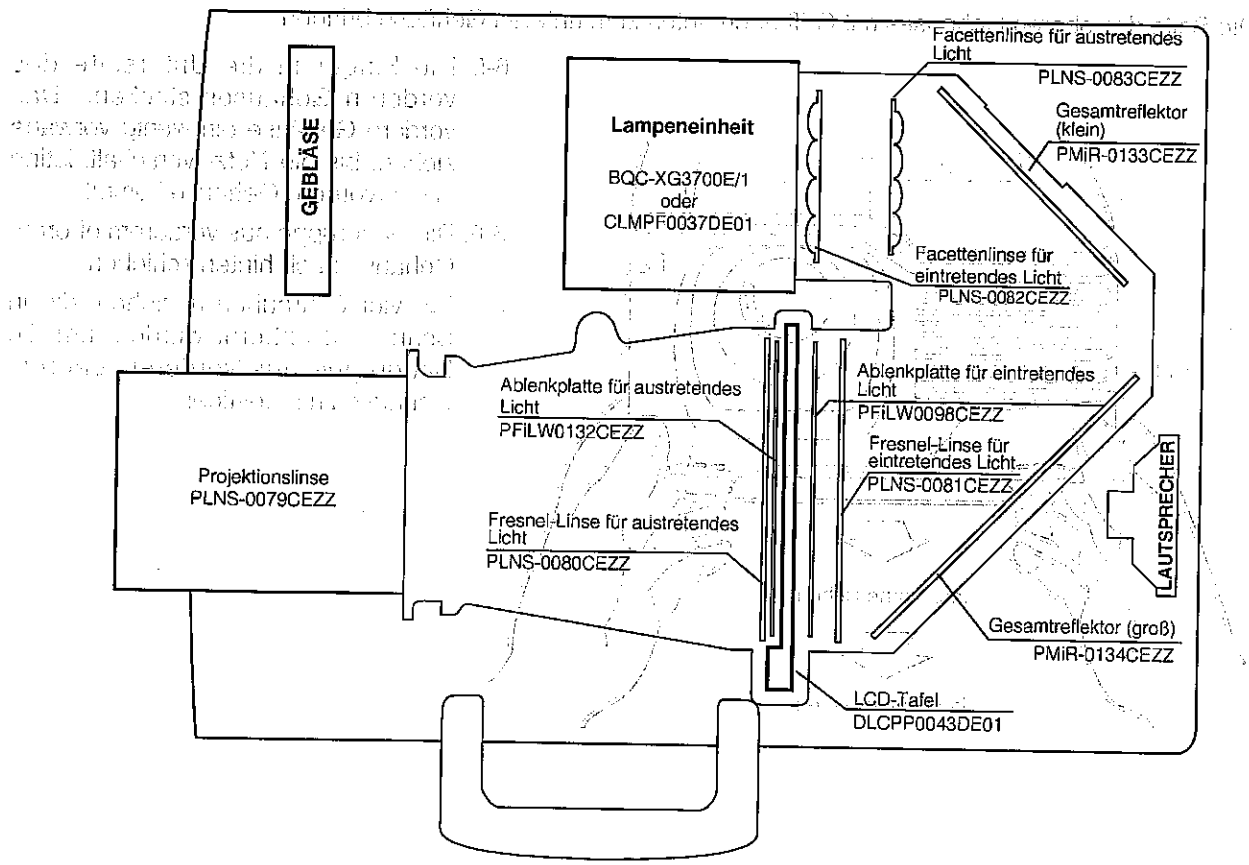
2. Reinigung der Spiegel

Die Spiegel dürfen niemals stark gerieben werden, weil ihre Oberflächen vergütet sind. Zuerst etwas Alkohol verwenden und dann mit einem trockenen Tuch wischen, wenn die Oberfläche leicht verschmutzt ist.

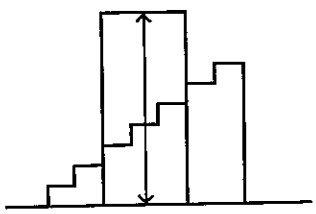
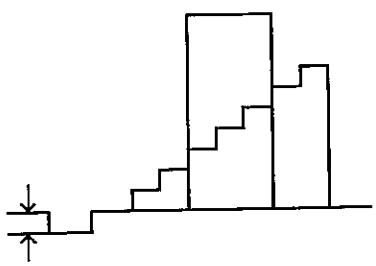
3. Zur Beachtung

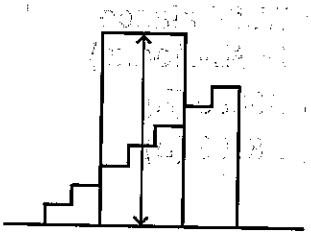
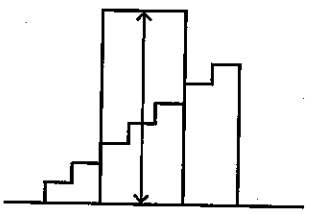
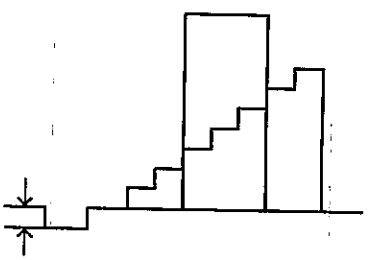
Die Bildqualität wird stark beeinträchtigt, wenn beide Seiten der LCD-Einheit und die LCD-Seite der Feldlinsen schmutzig sind. Diese Oberflächen müssen sorgfältig gereinigt werden.

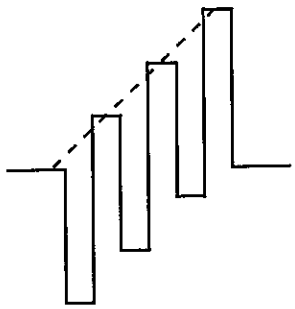
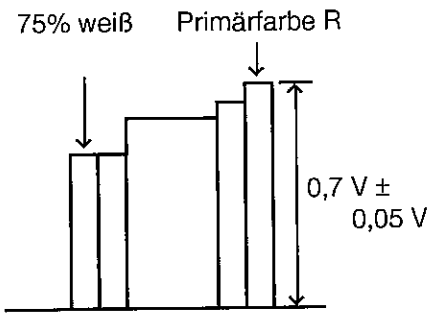
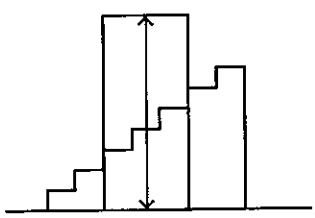
4. Anordnung des optischen Systems

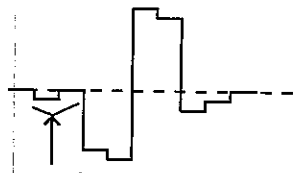
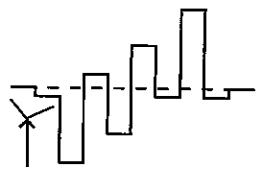
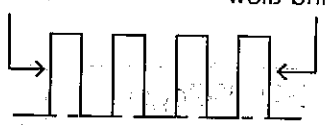


ELEKTRISCHE EINSTELLUNG

Nr.	Einstellposition	Einstellbedingungen	Einstellmethode
1	**Initialisierung**		• Die Taste "RESET" mittels der MENU-Taste drücken, um die einzelnen Modi zu wählen.
2	**Weißbalance im RGB-Modus (Schwarze Seite)** **ADJIN RGB** **PICTURE, BRIGHT, R-DRIVE, B-DRIVE**	1. Das Graustufensignal (8stufig) im RGB-Modus zuführen. 2. S2001 drücken, um den Modus ADJ IN aufzurufen. RGB wählen. 3. Ein Voltmeter an TP601 anschließen.	• PICTURE so einstellen, daß 2,5 ±0,05 V an Stift (1) anliegt. BRIGHT so einstellen, daß 1,4 ±0,05 V an Stift (4) anliegt. R-DRIVE so einstellen, daß 1,5 ±0,05 V an Stift (2) anliegt. B-DRIVE so einstellen, daß 1,5 ±0,05 V an Stift (3) anliegt.
3	**Weißbalance (RGB-Modus)** **R8095 (R)** **R8103 (B)**	1. Das Graustufensignal im RGB-Modus zuführen. (Diese Einstellung durchführen, wenn die Weißbalance sichtbar falsch eingestellt ist.)	• R8095 und R8103 so einstellen, daß die Weißbalance sichtbar richtig eingestellt ist. (Ab Werk eingestelltes Element auf der PC-/Schnittstellenkarte.)
4	**Automatische Verstärkung-sregelung (AGC)** **R1515** **(Main)**	1. Das NTSC-Farbbalkensignal zuführen. 2. Ein Oszilloskop zwischen Stift (1) von TP801 und GND anschließen.	• R1515 so einstellen, daß der Pegel zwischen der Schwarzabhebung und dem Weißbereich 0,55 ±0,05 Vss beträgt. 
5	**Sub-DC** **(DAC)**	1. Das NTSC-Farbbalkensignal zuführen. 2. S2001 drücken, um folgendes zu wählen. Gruppe : VIDEO 1 Gegenstand : SUB-DC 3. Das Oszilloskop zwischen Stift (6) von TP801 und GND anschließen.	• Die Tasten VIDEO ADJUSTMENT +/- am Membranschalter so einstellen, daß der Austastpegel und der 0-Ton-Pegel einander gleich sind. 

Nr.	Einstellposition	Einstellbedingungen	Einstellmethode
6	**Nebenkontrast (DAC)**	1. Das NTSC-Farbbalkensignal zuführen. 2. S2001 drücken und den folgenden DAC-Modus einstellen. Gruppe : VIDEO 1 Gegenstand : SUB-C 3. Das Oszilloskop zwischen Stift (6) von TP801 und GND anschließen.	• Die Tasten VIDEO ADJUSTMENT +/- am Membranschalter so einstellen, daß der Pegel zwischen der Schwarzabhebung und dem 100%-Weißbereich 0,6 ±0,05 Vss beträgt.
7	**R-Nebenkontrast R858**	1. Das NTSC-Farbbalkensignal zuführen. 2. Das Oszilloskop zwischen Stift (5) von TP801 und GND anschließen.	• R858 so einstellen, daß der Pegel zwischen der Schwarzabhebung und dem 100%-Weißbereich 0,6 ±0,05 Vss beträgt. 
8	**B-Nebenkontrast R853**	1. Das NTSC-Farbbalkensignal zuführen. 2. Das Oszilloskop zwischen Stift (7) von TP801 und GND anschließen.	• R853 so einstellen, daß der Pegel zwischen der Schwarzabhebung und dem 100%-Weißbereich 0,6 ±0,05 Vss beträgt. 
9	**Sub-DC (DAC)**	1. Das NTSC-Farbbalkensignal zuführen. 2. S2001 drücken, um folgendes zu wählen. Gruppe : VIDEO 2 Gegenstand : SUB-BIAS (Stift (6)) R-BIAS (Stift (5)) B-BIAS (Stift (7)) 3. Das Oszilloskop zwischen den einzelnen Stiften von TP801 und GND anschließen.	• Die Tasten VIDEO ADJUSTMENT +/- am Membranschalter so einstellen, daß der Austastpegel und der 0-Ton-Pegel einander gleich sind. 

Nr.	Einstellposition	Einstellbedingungen	Einstellmethode
10	**Farbton (DAC)**	1. Das NTSC-Farbbalkensignal zuführen. 2. S2001 drücken, um folgendes zu wählen. Gruppe : VIDEO 1 Gegenstand : TINT 3. Das Oszilloskop zwischen TP802 und TP808 anschließen.	• Die Tasten VIDEO ADJUSTMENT +/- am Membranschalter so einstellen, daß die Wellenform B-Y in einer geraden Linie geneigt ist. 
11	**Farbdichte (DAC)**	1. Das NTSC-Farbbalkensignal zuführen. 2. S2001 drücken, um folgendes zu wählen. Gruppe : VIDEO 1 Gegenstand : COLOR 3. Das Oszilloskop zwischen Stift (5) von TP801 und GND anschließen.	• Die Primärfarbe R mit den Tasten (+) und (-) des Membranschalters VIDEO ADJUSTMENT auf 0,7 ±0,05 V einstellen. 
12	**Abtastkonverter-Oszillation L4101 (Abtastkonverter)**	1. Einen Kurzschluß zwischen Stift (3) und Stift (2) (GND) von TP401 herstellen. 2. Einen Frequenzzähler zwischen Stift (1) von TP4101 und GND anschließen.	• L4101 so einstellen, daß der Frequenzzähler 15,625 ±0,01 kHz anzeigt.
13	**PAL Y-Pegel (DAC)**	1. Das PAL-Farbbalkensignal zuführen. 2. S2001 drücken, um folgendes zu wählen. Gruppe : VIDEO 3 Gegenstand : PAL-SUB-C 3. Das Oszilloskop zwischen Stift (1) von TP801 und GND anschließen.	• Die Tasten VIDEO ADJUSTMENT +/- am Membranschalter so einstellen, daß der Pegel zwischen den Schwarz- und Weißbereichen des Signals (negative Polarität) 0,6 ±0,05 Vss beträgt. 

Nr.	Einstellposition	Einstellbedingungen	Einstellmethode
14	**SECAM R-Y (DAC)**	1. Das SECAM-Farbbalkensignal zuführen. 2. S2001 drücken, um folgendes zu wählen. Gruppe : VIDEO 3 Gegenstand : SCM-R-Y 3. Das Oszilloskop zwischen TP809 (Stift (30) von IC802) und GND anschließen.	• Die Tasten VIDEO ADJUSTMENT +/- am Membranschalter so einstellen, daß der Gleichstrompegel gleich wird.  Müssen auf dem gleichen Pegel sein
15	**SECAM B-Y (DAC)**	1. Das SECAM-Farbbalkensignal zuführen. 2. S2001 drücken, um folgendes zu wählen. Gruppe : VIDEO 3 Gegenstand : SCM-B-Y 3. Das Oszilloskop zwischen TP808 (Stift (29) von IC802) und GND anschließen.	• Die Tasten VIDEO ADJUSTMENT +/- am Membranschalter so einstellen, daß der Gleichstrompegel gleich wird.  Müssen auf dem gleichen Pegel sein
16	**SECAM-Amplitude (DAC)**	1. Das SECAM-Farbbalkensignal zuführen. 2. S2001 drücken, um folgendes zu wählen. Gruppe : VIDEO 3 Gegenstand : SCM-AMP 3. Das Oszilloskop zwischen Stift (7) von TP801 und GND anschließen.	• Die Tasten VIDEO ADJUSTMENT +/- am Membranschalter so einstellen, daß der unten angegebene Pegel nahe an den 75%-Weißpegel gebracht wird. Diesen Pegel nahe an 75% weiß bringen 75% weiß 
17	**PAL-Horizontalphase (DAC)**	1. Das PAL-Monoskopmustersignal zuführen. 2. S2001 drücken, um folgendes zu wählen. Gruppe : VIDEO 3 Gegenstand : PAL-H	• Die Tasten VIDEO ADJUSTMENT +/- am Membranschalter so einstellen, daß so daß die rechte und linke Überabtastung einander gleich werden.

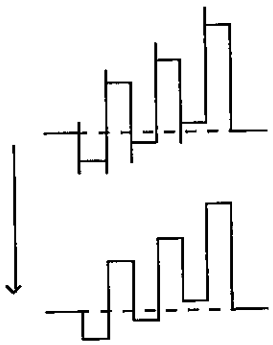
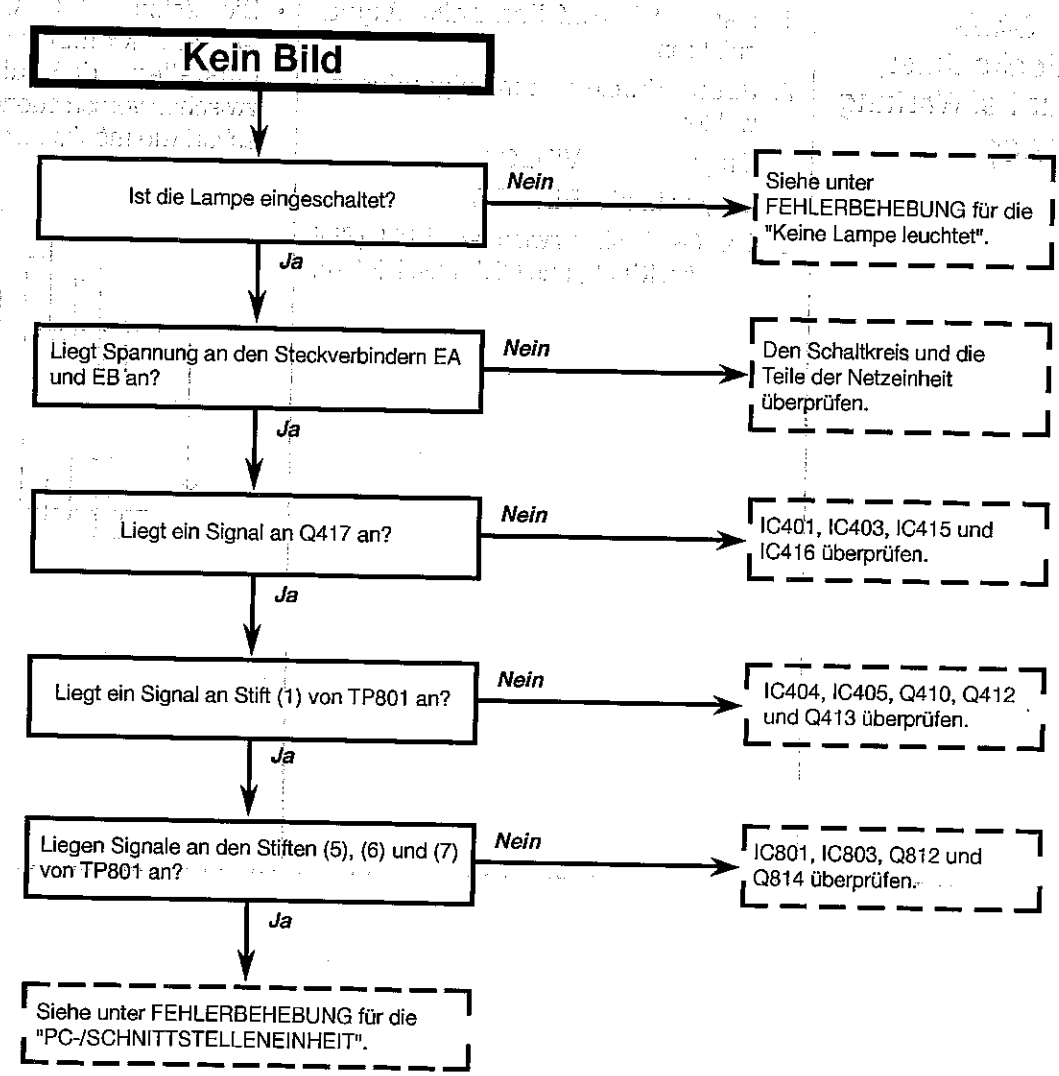
Nr.	Einstellposition	Einstellbedingungen	Einstellmethode
18	**SECAM-Glockenfilter, nur bei Wartung (DAC)**	1. Das SECAM-Farbbalkensignal zuführen. 2. S2001 drücken, um folgendes zu wählen. Gruppe : VIDEO 3 Gegenstand : BELL-FO 3. Das Oszilloskop zwischen TP808 (Stift (29) von IC802) und GND anschließen.	• Die Tasten VIDEO ADJUSTMENT +/- am Membranschalter so einstellen, daß die Grenzen zwischen verschiedenen Farben so scharf wie möglich werden. 

TABELLE FÜR FEHLERBEHEBUNG


Kein Bild
Ist die Lampe eingeschaltet?
Nein
Siehe unter FEHLERBEHEBUNG für die "Keine Lampe leuchtet".
Ja
Liegt Spannung an den Steckverbindern EA und EB an?
Nein
Den Schaltkreis und die Teile der Netzeinheit überprüfen.
Ja
Liegt ein Signal an Q417 an?
Nein
IC401, IC403, IC415 und IC416 überprüfen.
Ja
Liegt ein Signal an Stift (1) von TP801 an?
Nein
IC404, IC405, Q410, Q412 und Q413 überprüfen.
Ja
Liegen Signale an den Stiften (5), (6) und (7) von TP801 an?
Nein
IC801, IC803, Q812 und Q814 überprüfen.
Ja
Siehe unter FEHLERBEHEBUNG für die "PC-/SCHNITTSTELLENEINHEIT".

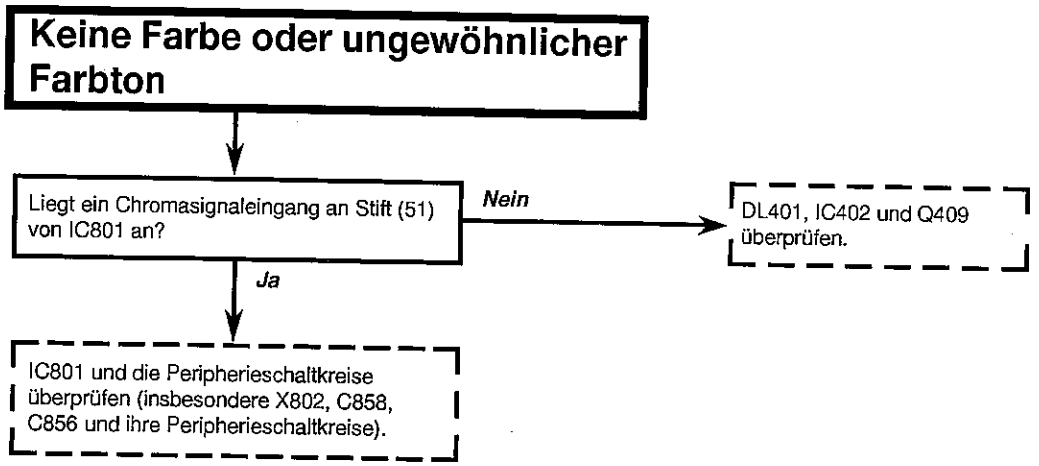

Keine Farbe oder ungewöhnlicher Farbton
Liegt ein Chromasignaleingang an Stift (51) von IC801 an?
Nein
DL401, IC402 und Q409 überprüfen.
Ja
IC801 und die Peripherieschaltkreise überprüfen (insbesondere X802, C858, C856 und ihre Peripherieschaltkreise).

TABELLE FÜR FEHLERBEHEBUNG (Fortsetzung)

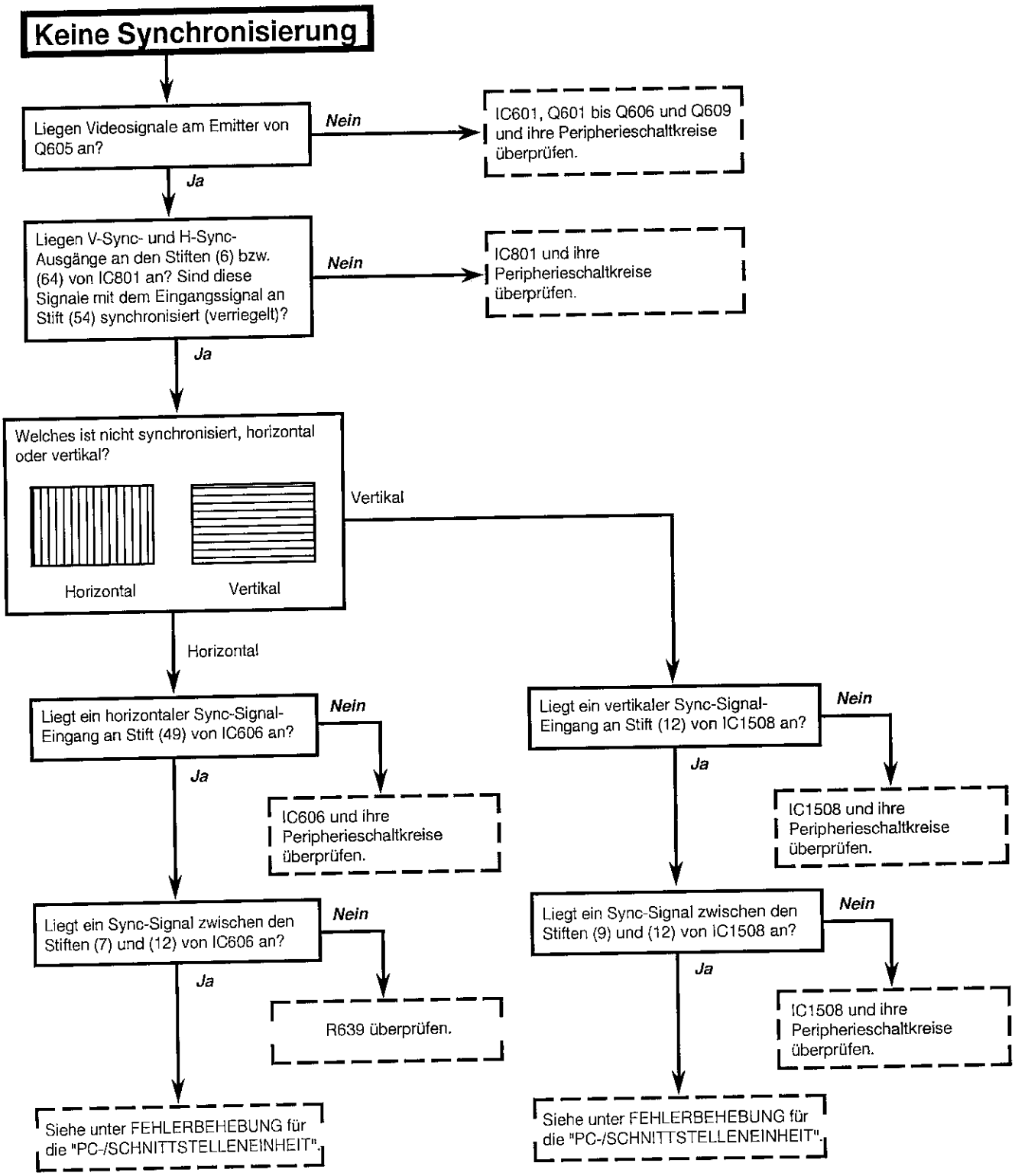

Keine Synchronisierung
Liegen Videosignale am Emitter von Q605 an?
Nein
IC601, Q601 bis Q606 und Q609 und ihre Peripherieschaltkreise überprüfen.
Ja
Liegen V-Sync- und H-Sync-Ausgänge an den Stiften (6) bzw. (64) von IC801 an? Sind diese Signale mit dem Eingangssignal an Stift (54) synchronisiert (verriegelt)?
Nein
IC801 und ihre Peripherieschaltkreise überprüfen.
Ja
Welches ist nicht synchronisiert, horizontal oder vertikal?
Horizontal
Vertikal
Vertikal
Horizontal
Liegt ein horizontaler Sync-Signal-Eingang an Stift (49) von IC606 an?
Nein
IC606 und ihre Peripherieschaltkreise überprüfen.
Ja
Liegt ein Sync-Signal zwischen den Stiften (7) und (12) von IC606 an?
Nein
R639 überprüfen.
Ja
Siehe unter FEHLERBEHEBUNG für die "PC-/SCHNITTSTELLENEINHEIT".
Liegt ein vertikaler Sync-Signal-Eingang an Stift (12) von IC1508 an?
Nein
IC1508 und ihre Peripherieschaltkreise überprüfen.
Ja
Liegt ein Sync-Signal zwischen den Stiften (9) und (12) von IC1508 an?
Nein
IC1508 und ihre Peripherieschaltkreise überprüfen.
Ja
Siehe unter FEHLERBEHEBUNG für die "PC-/SCHNITTSTELLENEINHEIT".

TABELLE FÜR FEHLERBEHEBUNG (Fortsetzung)

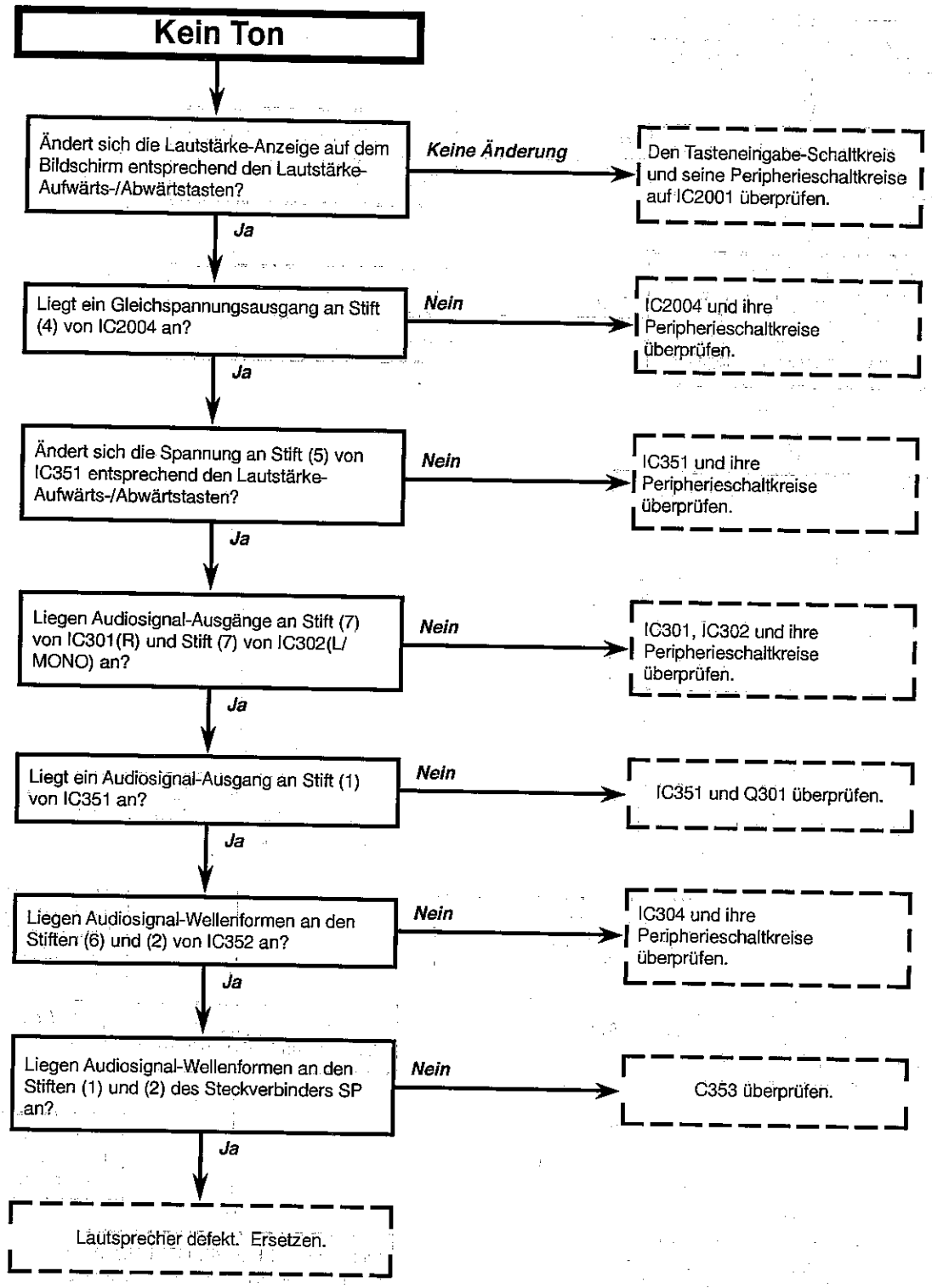
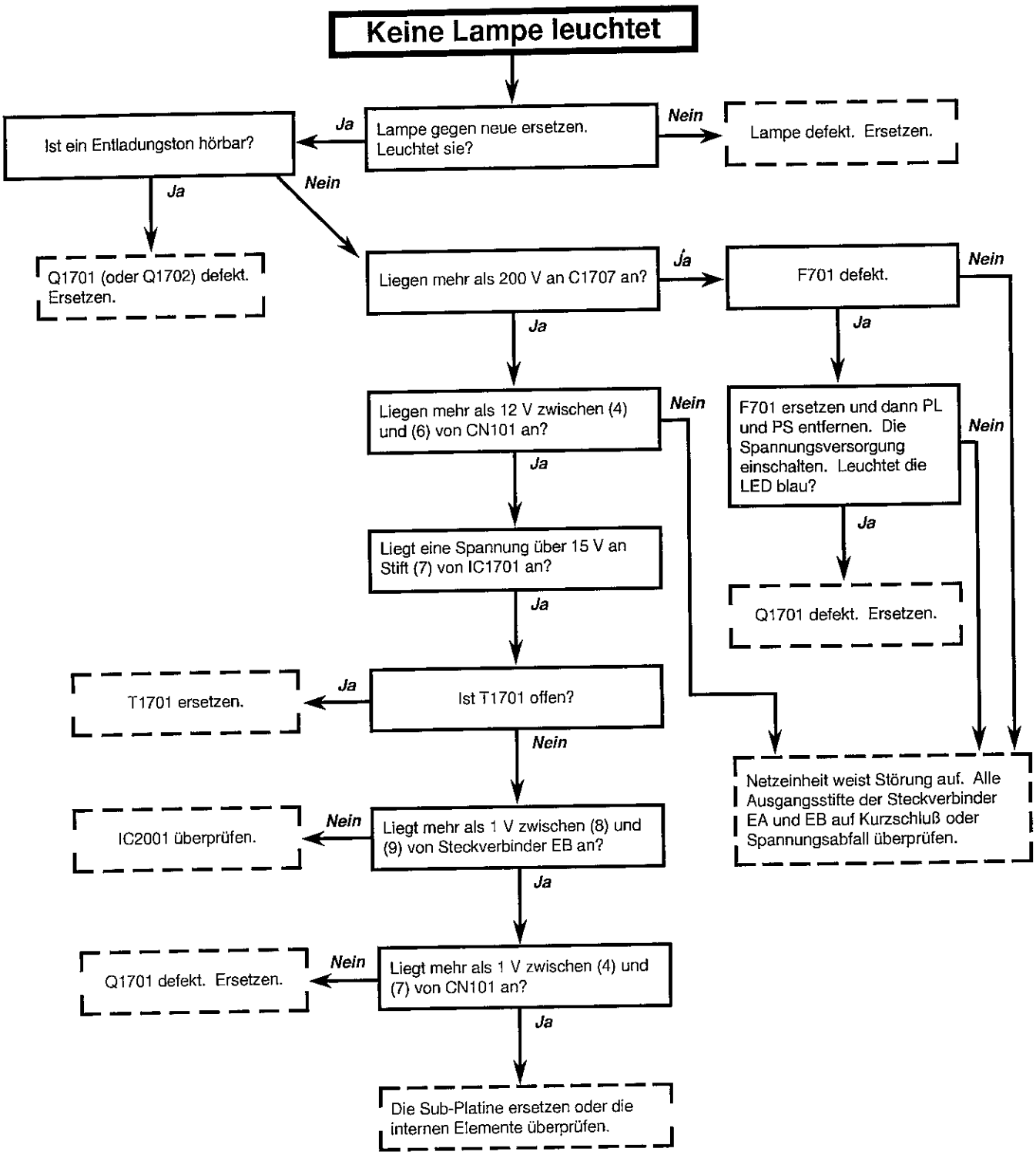
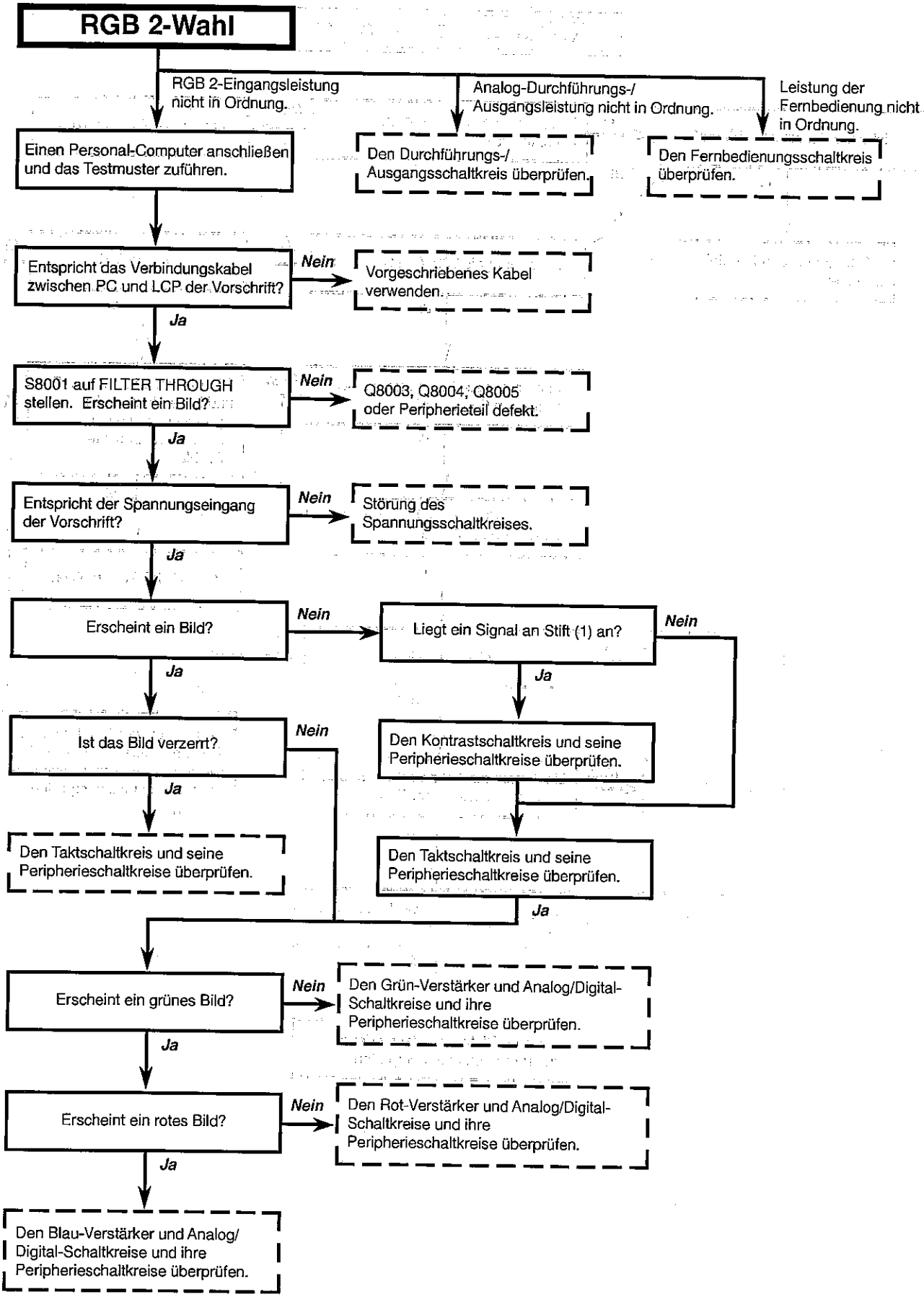

Kein Ton
Ändert sich die Lautstärke-Anzeige auf dem Bildschirm entsprechend den Lautstärke-Aufwärts-/Abwärtstasten?
Keine Änderung
Den Tasteneingabe-Schaltkreis und seine Peripherieschaltkreise auf IC2001 überprüfen.
Ja
Liegt ein Gleichspannungsausgang an Stift (4) von IC2004 an?
Nein
IC2004 und ihre Peripherieschaltkreise überprüfen.
Ja
Ändert sich die Spannung an Stift (5) von IC351 entsprechend den Lautstärke-Aufwärts-/Abwärtstasten?
Nein
IC351 und ihre Peripherieschaltkreise überprüfen.
Ja
Liegen Audiosignal-Ausgänge an Stift (7) von IC301(R) und Stift (7) von IC302(L/MONO) an?
Nein
IC301, IC302 und ihre Peripherieschaltkreise überprüfen.
Ja
Liegt ein Audiosignal-Ausgang an Stift (1) von IC351 an?
Nein
IC351 und Q301 überprüfen.
Ja
Liegen Audiosignal-Wellenformen an den Stiften (6) und (2) von IC352 an?
Nein
IC304 und ihre Peripherieschaltkreise überprüfen.
Ja
Liegen Audiosignal-Wellenformen an den Stiften (1) und (2) des Steckverbinders SP an?
Nein
C353 überprüfen.
Ja
Lautsprecher defekt. Ersetzen.

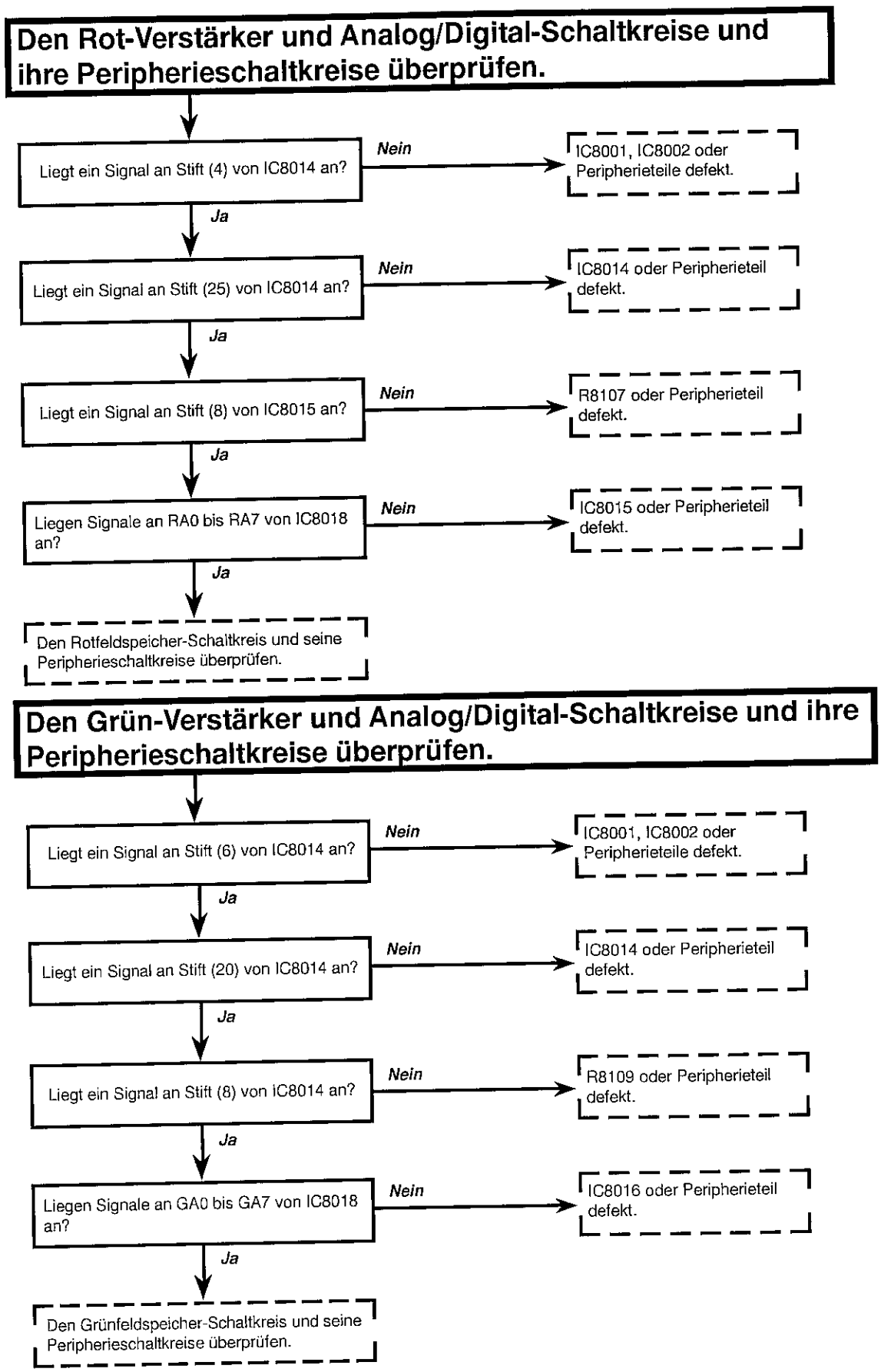
TABELLE FÜR FEHLERBEHEBUNG (Fortsetzung)


Keine Lampe leuchtet
Lampe gegen neue ersetzen. Leuchtet sie?
Ja
Nein
Lampe defekt. Ersetzen.
Ist ein Entladungston hörbar?
Ja
Nein
Q1701 (oder Q1702) defekt. Ersetzen.
Liegen mehr als 200 V an C1707 an?
Ja
Nein
F701 defekt.
Ja
Nein
F701 ersetzen und dann PL und PS entfernen. Die Spannungsversorgung einschalten. Leuchtet die LED blau?
Ja
Nein
Q1701 defekt. Ersetzen.
Liegen mehr als 12 V zwischen (4) und (6) von CN101 an?
Ja
Nein
Liegt eine Spannung über 15 V an Stift (7) von IC1701 an?
Ja
Ist T1701 offen?
Ja
T1701 ersetzen.
Nein
Liegt mehr als 1 V zwischen (8) und (9) von Steckverbinder EB an?
Nein
IC2001 überprüfen.
Ja
Liegt mehr als 1 V zwischen (4) und (7) von CN101 an?
Nein
Q1701 defekt. Ersetzen.
Ja
Die Sub-Platine ersetzen oder die internen Elemente überprüfen.
Netzeinheit weist Störung auf. Alle Ausgangsstifte der Steckverbinder EA und EB auf Kurzschluß oder Spannungsabfall überprüfen.

FEHLERBEHEBUNG FÜR PC-/SCHNITTSTELLENEINHEIT

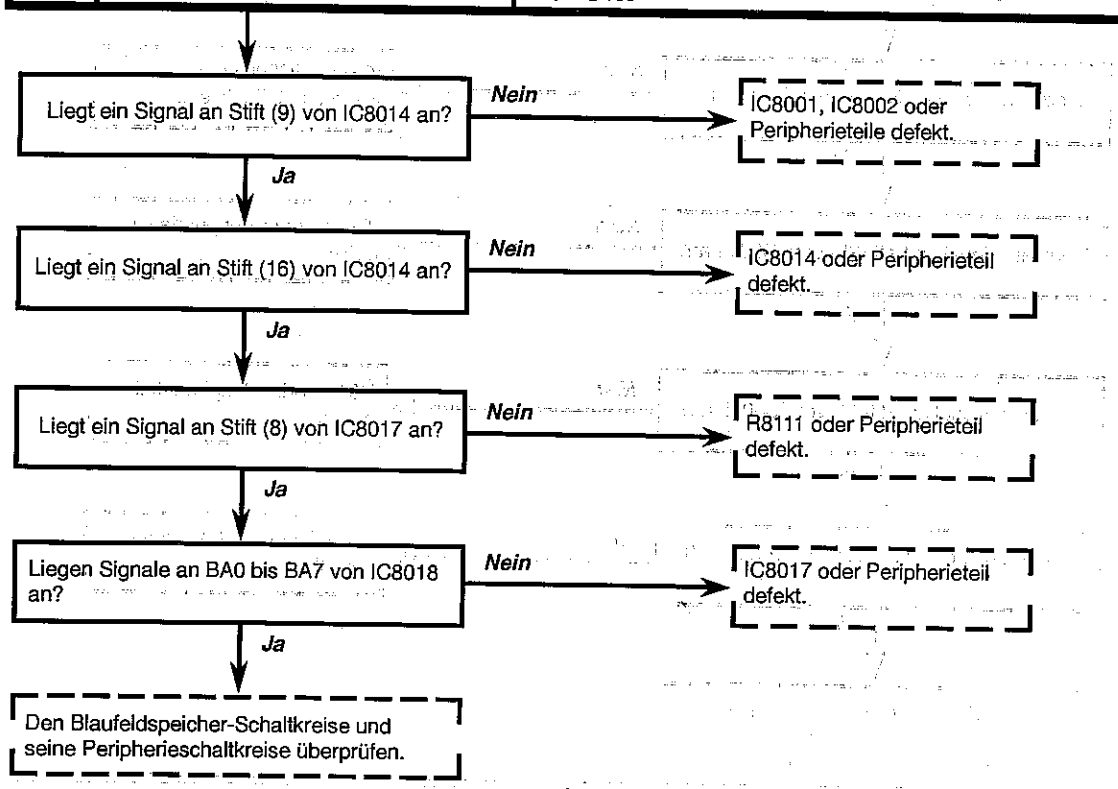


FEHLERBEHEBUNG FÜR PC-/SCHNITTSTELLENEINHEIT (Fortsetzung)

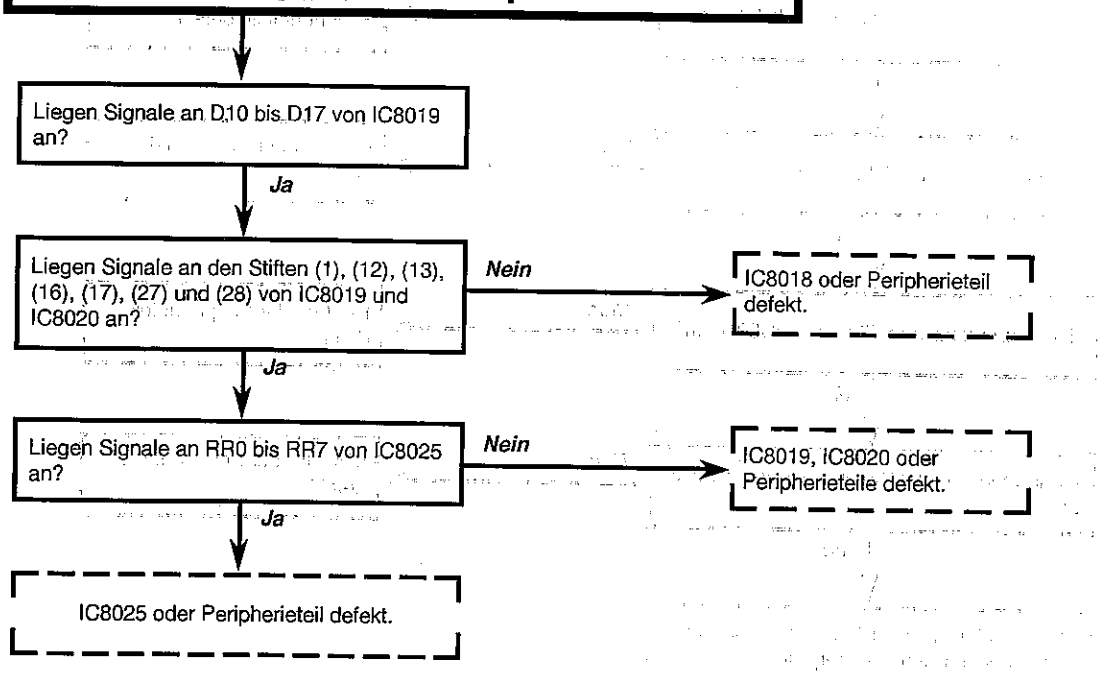

Den Rot-Verstärker und Analog/Digital-Schaltkreise und ihre Peripherieschaltkreise überprüfen.
Liegt ein Signal an Stift (4) von IC8014 an?
Nein
IC8001, IC8002 oder Peripherieteile defekt.
Ja
Liegt ein Signal an Stift (25) von IC8014 an?
Nein
IC8014 oder Peripherieteil defekt.
Ja
Liegt ein Signal an Stift (8) von IC8015 an?
Nein
R8107 oder Peripherieteil defekt.
Ja
Liegen Signale an RA0 bis RA7 von IC8018 an?
Nein
IC8015 oder Peripherieteil defekt.
Ja
Den Rotfeldspeicher-Schaltkreis und seine Peripherieschaltkreise überprüfen.
Den Grün-Verstärker und Analog/Digital-Schaltkreise und ihre Peripherieschaltkreise überprüfen.
Liegt ein Signal an Stift (6) von IC8014 an?
Nein
IC8001, IC8002 oder Peripherieteile defekt.
Ja
Liegt ein Signal an Stift (20) von IC8014 an?
Nein
IC8014 oder Peripherieteil defekt.
Ja
Liegt ein Signal an Stift (8) von IC8014 an?
Nein
R8109 oder Peripherieteil defekt.
Ja
Liegen Signale an GA0 bis GA7 von IC8018 an?
Nein
IC8016 oder Peripherieteil defekt.
Ja
Den Grünfeldspeicher-Schaltkreis und seine Peripherieschaltkreise überprüfen.

FEHLERBEHEBUNG FÜR PC-/SCHNITTSTELLENEINHEIT (Fortsetzung)

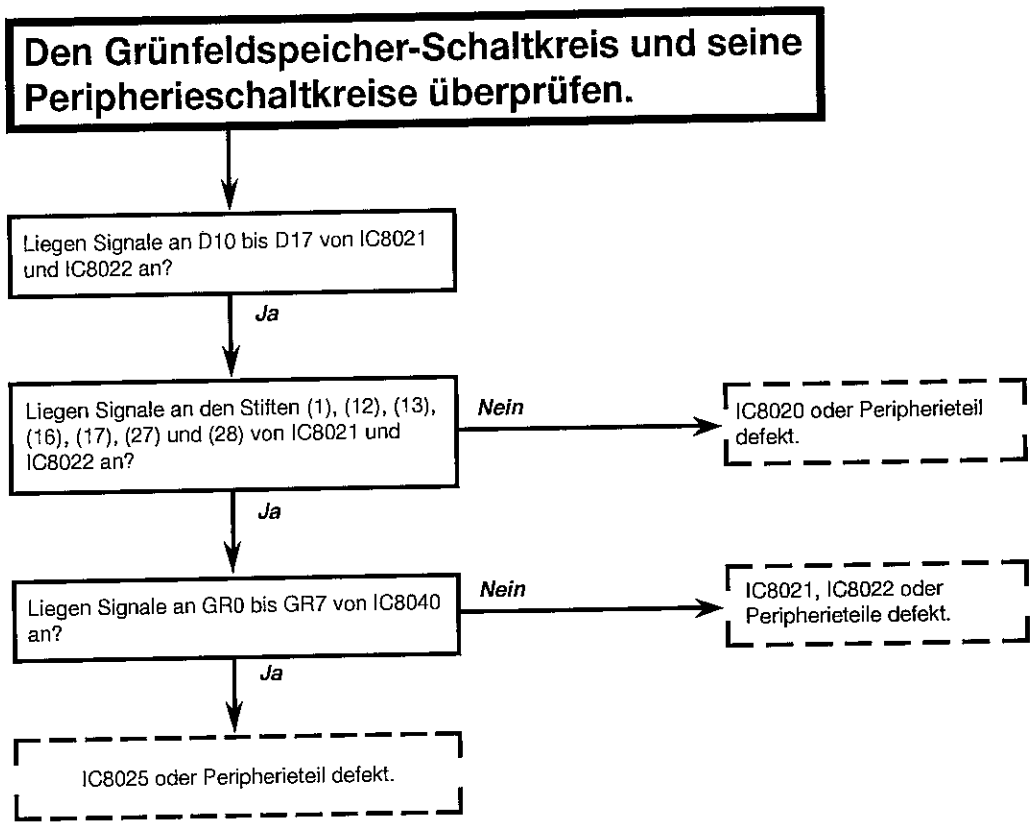
Den Blau-Verstärker und Analog/Digital-Schaltkreise und ihre Peripherieschaltkreise überprüfen.

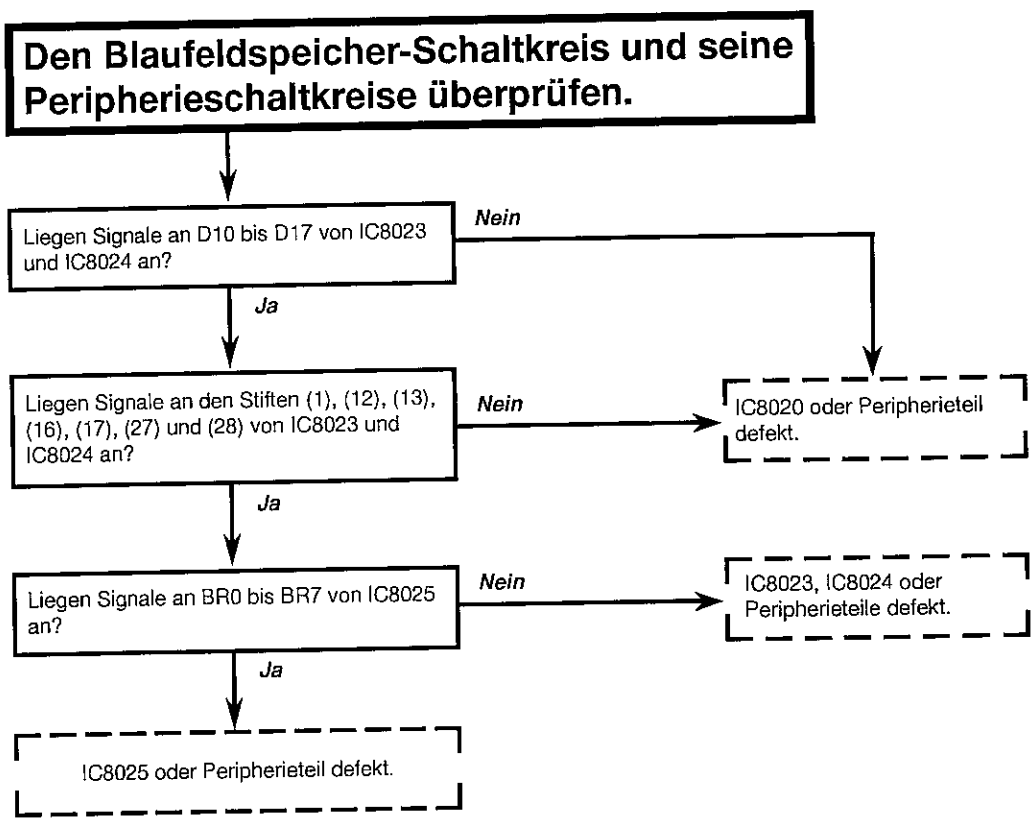


Den Rotfeldspeicher-Schaltkreis und seine Peripherieschaltkreise überprüfen.

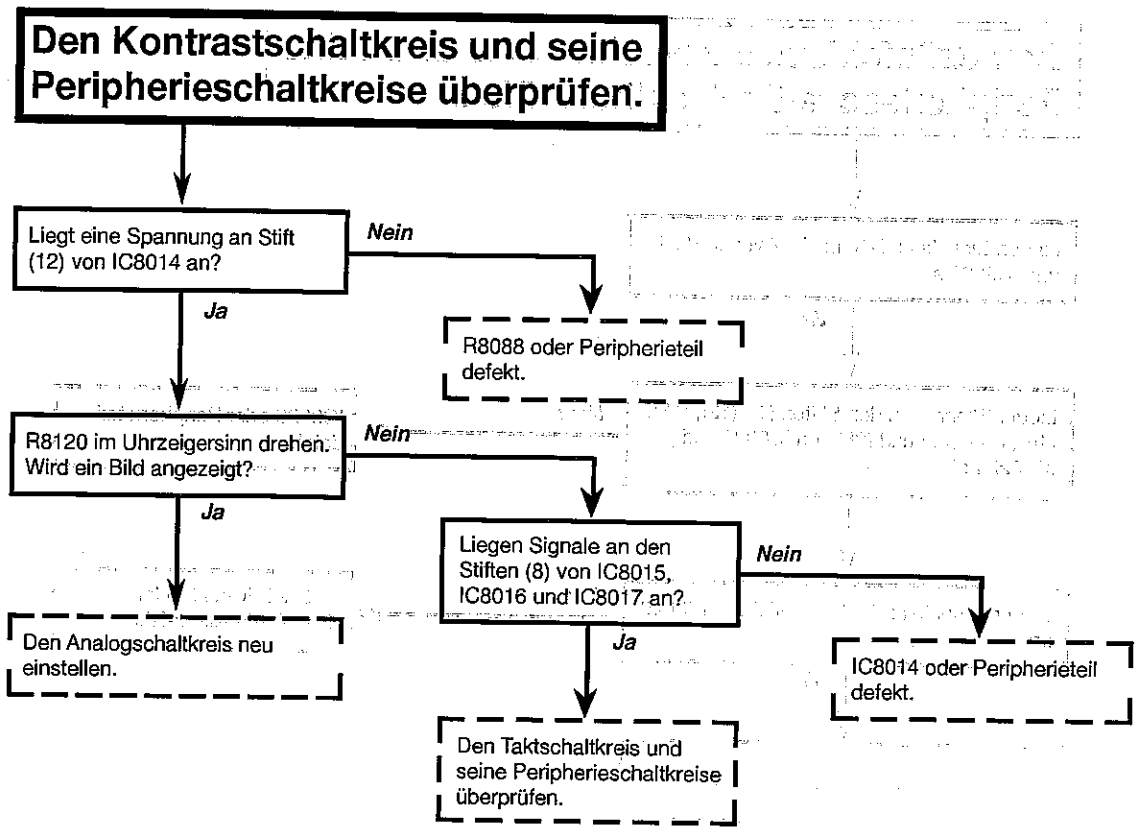

Liegen Signale an D10 bis D17 von IC8019 an?
Ja
Liegen Signale an den Stiften (1), (12), (13), (16), (17), (27) und (28) von IC8019 und IC8020 an?
Nein
IC8018 oder Peripherieteil defekt.
Ja
Liegen Signale an RR0 bis RR7 von IC8025 an?
Nein
IC8019, IC8020 oder Peripherieteile defekt.
Ja
IC8025 oder Peripherieteil defekt.

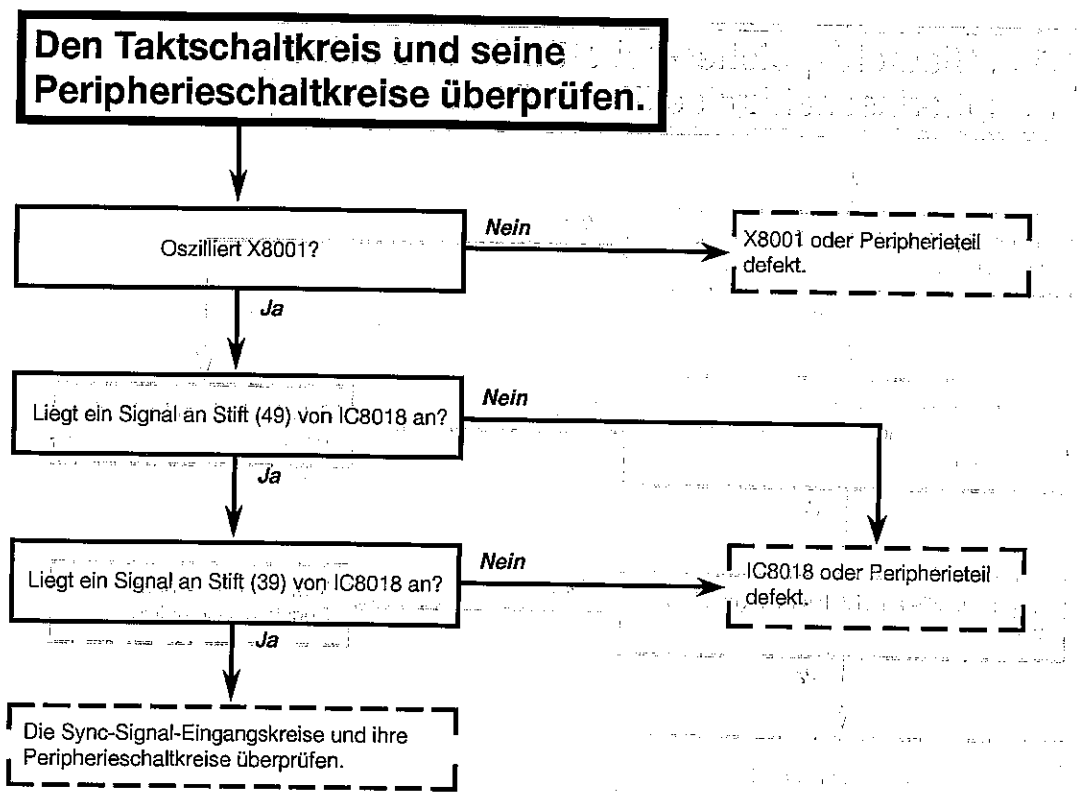
FEHLERBEHEBUNG FÜR PC-/SCHNITTSTELLENEINHEIT (Fortsetzung)


Den Grünfeldspeicher-Schaltkreis und seine Peripherieschaltkreise überprüfen.
Liegen Signale an D10 bis D17 von IC8021 und IC8022 an?
Ja
Liegen Signale an den Stiften (1), (12), (13), (16), (17), (27) und (28) von IC8021 und IC8022 an?
Nein
IC8020 oder Peripherieteil defekt.
Ja
Liegen Signale an GR0 bis GR7 von IC8040 an?
Nein
IC8021, IC8022 oder Peripherieteile defekt.
Ja
IC8025 oder Peripherieteil defekt.

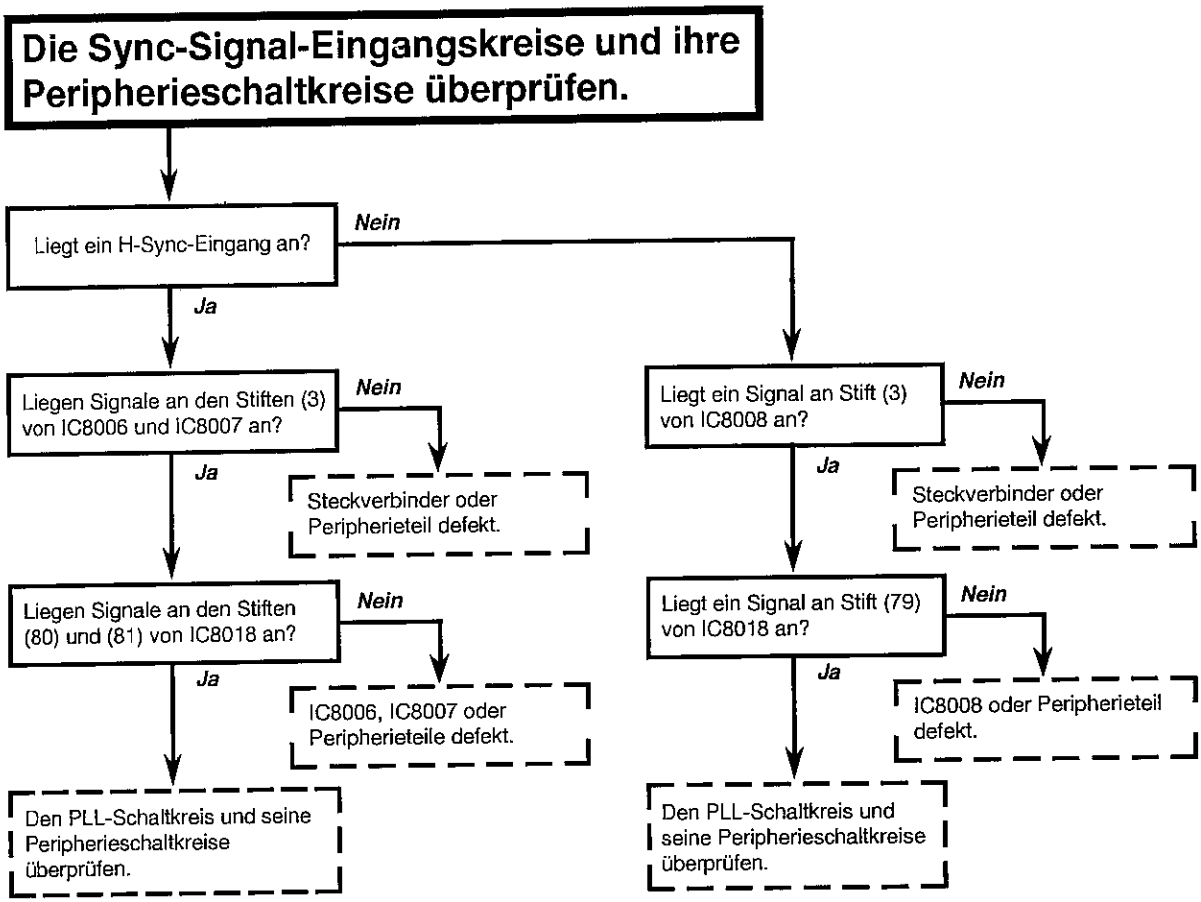

Den Blaufeldspeicher-Schaltkreis und seine Peripherieschaltkreise überprüfen.
Liegen Signale an D10 bis D17 von IC8023 und IC8024 an?
Nein
Ja
Liegen Signale an den Stiften (1), (12), (13), (16), (17), (27) und (28) von IC8023 und IC8024 an?
Nein
IC8020 oder Peripherieteil defekt.
Ja
Liegen Signale an BR0 bis BR7 von IC8025 an?
Nein
IC8023, IC8024 oder Peripherieteile defekt.
Ja
IC8025 oder Peripherieteil defekt.

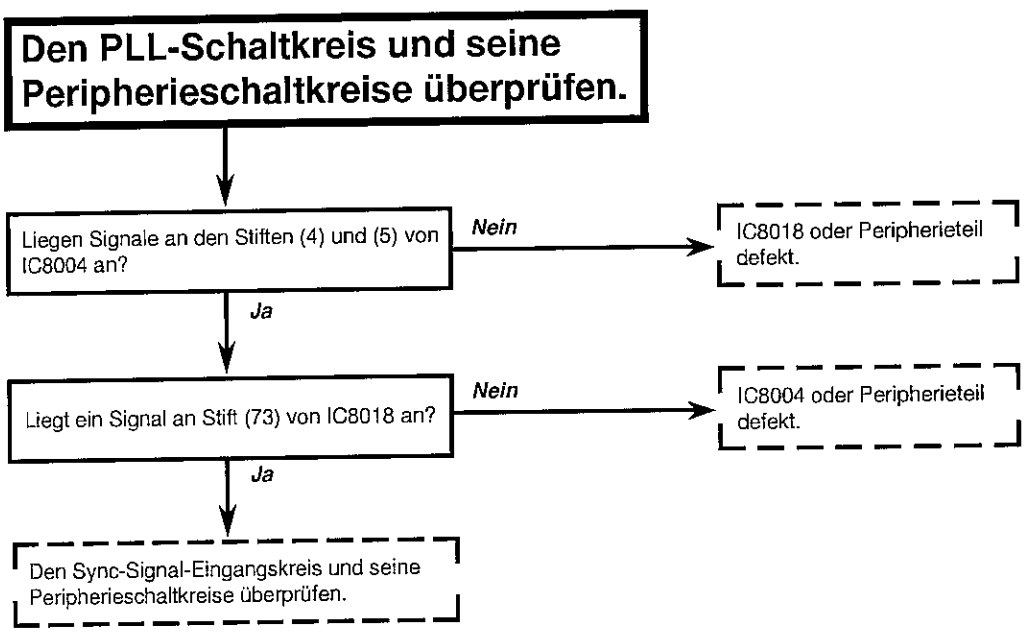
FEHLERBEHEBUNG FÜR PC-/SCHNITTSTELLENEINHEIT (Fortsetzung)


Den Kontrastschaltkreis und seine Peripherieschaltkreise überprüfen.
Liegt eine Spannung an Stift (12) von IC8014 an?
Nein
Ja
R8088 oder Peripherieteil defekt.
R8120 im Uhrzeigersinn drehen. Wird ein Bild angezeigt?
Nein
Ja
Liegen Signale an den Stiften (8) von IC8015, IC8016 und IC8017 an?
Nein
Ja
Den Analogschaltkreis neu einstellen.
IC8014 oder Peripherieteil defekt.
Den Taktschaltkreis und seine Peripherieschaltkreise überprüfen.

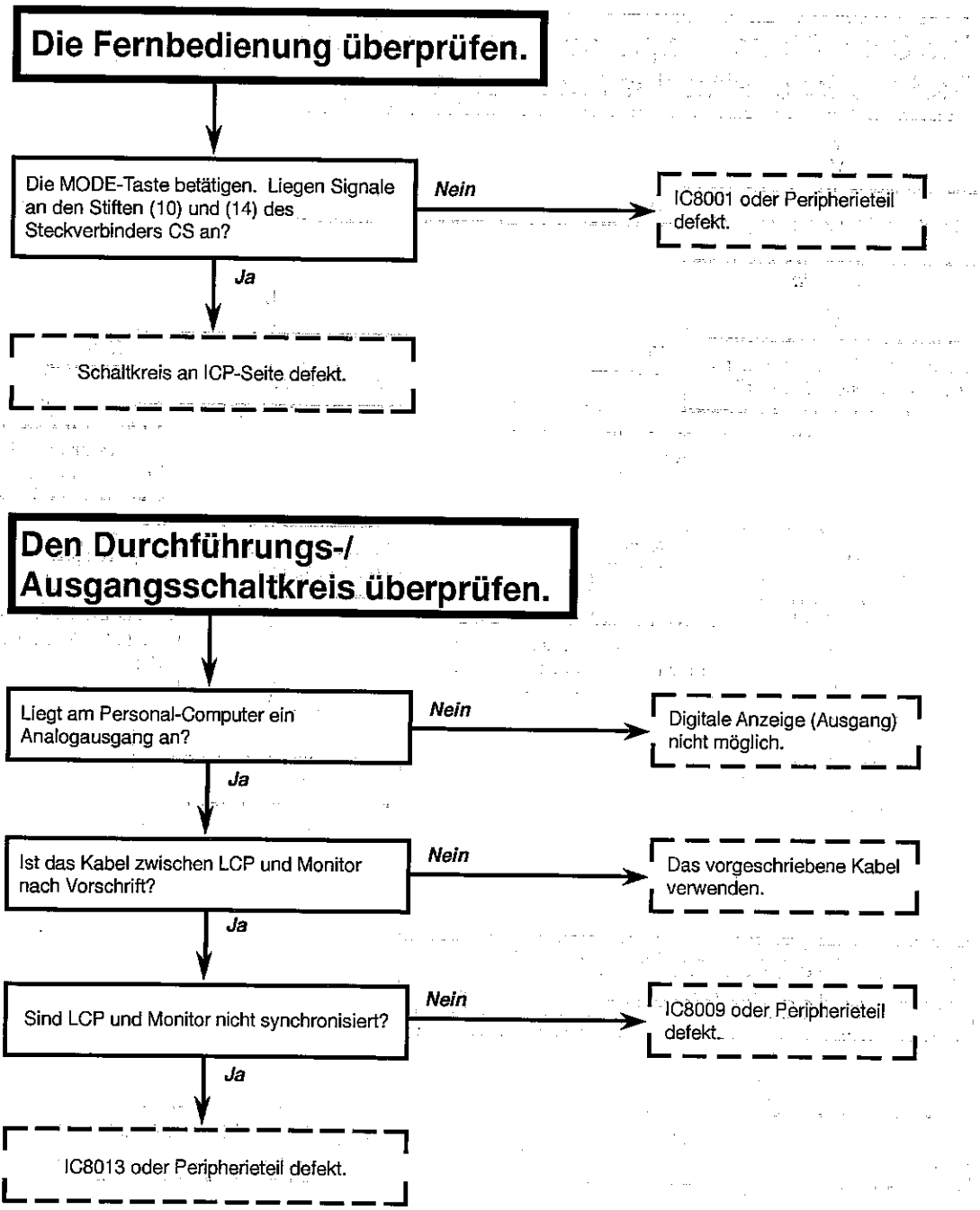


FEHLERBEHEBUNG FÜR PC-/SCHNITTSTELLENEINHEIT (Fortsetzung)


Die Sync-Signal-Eingangskreise und ihre Peripherieschaltkreise überprüfen.
Liegt ein H-Sync-Eingang an?
Nein
Ja
Liegen Signale an den Stiften (3) von IC8006 und IC8007 an?
Nein
Ja
Steckverbinder oder Peripherieteil defekt.
Liegen Signale an den Stiften (80) und (81) von IC8018 an?
Nein
Ja
IC8006, IC8007 oder Peripherieteile defekt.
Den PLL-Schaltkreis und seine Peripherieschaltkreise überprüfen.
Liegt ein Signal an Stift (3) von IC8008 an?
Nein
Ja
Steckverbinder oder Peripherieteil defekt.
Liegt ein Signal an Stift (79) von IC8018 an?
Nein
Ja
IC8008 oder Peripherieteil defekt.
Den PLL-Schaltkreis und seine Peripherieschaltkreise überprüfen.


Den PLL-Schaltkreis und seine Peripherieschaltkreise überprüfen.
Liegen Signale an den Stiften (4) und (5) von IC8004 an?
Nein
IC8018 oder Peripherieteil defekt.
Ja
Liegt ein Signal an Stift (73) von IC8018 an?
Nein
IC8004 oder Peripherieteil defekt.
Ja
Den Sync-Signal-Eingangskreis und seine Peripherieschaltkreise überprüfen.

FEHLERBEHEBUNG FÜR PC-/SCHNITTSTELLENEINHEIT (Fortsetzung)



規格參數

產品類型	液晶投影機
型號	XG-3700E
視頻制式	PAL/SECAM/NTSC 3.58/NTSC 4.43
顯示方法	一塊液晶板，RGB三色光學色盤方式
液晶板	
液晶板尺寸	16.3厘米（6.4英寸）(97.5【高】×130.0【寬】毫米)
顯示方法	半透明TN液晶板
驅動方式	薄膜晶體管（TFT）活性矩陣板
像素數量	307,200像素（640【H】×480【V】）
鏡頭	F4.4，f=218毫米
投影燈泡	350瓦金屬鹵燈
對比度	100：1
視頻輸入訊號	RCA插頭：視頻，復合視頻，峰間1伏，負同步，75歐姆端子 RCA插頭：聲頻，0.5伏有效值，小於22千歐姆
S-視頻輸入訊號	4芯小型DIN連接插頭 Y（亮度訊號）：峰間值1伏，負同步，75歐姆端子 C（色度訊號）：脈衝峰間值0.286伏，75歐姆端子
音頻輸出訊號	RCA連接插頭：聲頻，0.5伏有效值，小於2.2千歐姆
水平解像度	500行電視掃描
聲頻輸出	5瓦（單耳聲）
電腦RGB輸入訊號	
數據訊號	15芯小型D-sub連接插頭：RGB分離式模擬輸入：峰間值0.7伏，正值，75歐姆端子
音頻訊號	聲頻0.5毫伏有效值，大於22千歐姆（立體聲）
水平同步訊號	TTL電平（正／負）或復合同步（僅限於Macintosh電腦）
垂直同步訊號	同上
揚聲器	3吋（8厘米）圓形
額定電壓	交流200－240伏
額定頻率	50/60赫茲
耗電量	440瓦
工作溫度	攝氏5度至40度
存放溫度	攝氏-20度至55度
機殼	塑料
尺寸（寬×縱深×高）	351×499×222毫米
重量	10.2公斤
隨機附件	遙控器、2節AAA乾電池、過濾網、VGA訊號接線(3 m)、MAC/VGA連接插頭、交流電線、鏡頭蓋（已裝上）
自購更換部件	遙控器、空氣過濾器、VGA接線、Mac/VGA連接器、交流電源線

本投影機采用了液晶顯示板。這種非常精細的顯示板里含有307,200個像素。（RGB三色的薄膜管）。如同任何其他諸如大屏幕電視機、錄影設備及攝影機等高技術電子設備，本品也存在可容范圍內的誤差。SHARP公司容認的誤差規格允許存在不起作用的薄膜晶體管的總數為35個。它們在銀幕上表現為亮點。但這不影響圖像質量或投影機的使用壽命。

規格參數可有變更，恕不另行通知。

保养维修人员须知

紫外线辐射注意事项

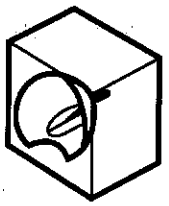
本液晶投影机的光源—金属检卤灯使用时会产生少量的紫外线辐射。

防止眼睛和皮肤的直接曝射。

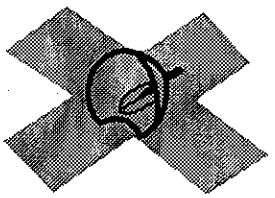
为保证安全，务请遵守下列注意事项：

1. 揭去投影机顶盖并打开金属检卤灯进行检查维修时，务请戴用太阳墨镜。

2. 切勿随意修弄金属检卤灯灯室外壳。



3. 揭去投影机顶盖的保养维修不得超过2小时以上。



紫外线辐射与中压灯的注意事项

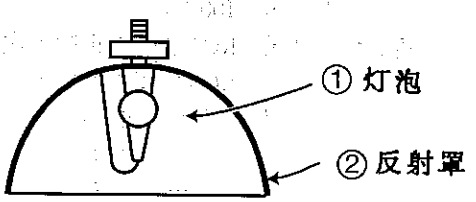
1. 更换中压灯前，请先拔除电源插头。
2. 保养维修该装置前，请先让其冷却一小时以上。
3. 更换中压灯只得用同类型号者：CLMPF0037 DE01，额定值65V/350W。
4. 该灯点亮时有少量紫外线辐射发生，切勿直接曝照裸眼。
5. 中压灯有引起爆炸之危险。安装、保养及维修时，务请按下述要求谨慎处理之。

■ 金属检卤灯的更换注意：

该灯于点亮时所达温度极高。因此，更换该灯至少应在关灯后一小时再进行。（让该灯充分冷却。）

用手安装新灯时，只得抓握检卤灯反射罩②进行安装，切勿用手触碰灯泡电珠。

〔更换新灯只得用规定正品。〕



危险！ 一没安装金属检卤灯时，不得打开电源开关。因为引入电源后，稳压器便随即发生极高的电压，足以引起人身高压触电或装置损坏的危险。

关于紫外线辐射的注意事项（续）

在进行维修工作时，应置灯室盖罩于开槽部位。（图1）

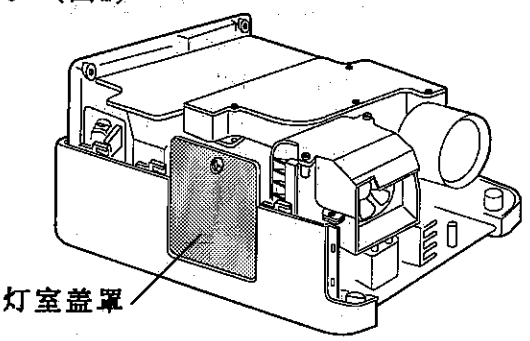
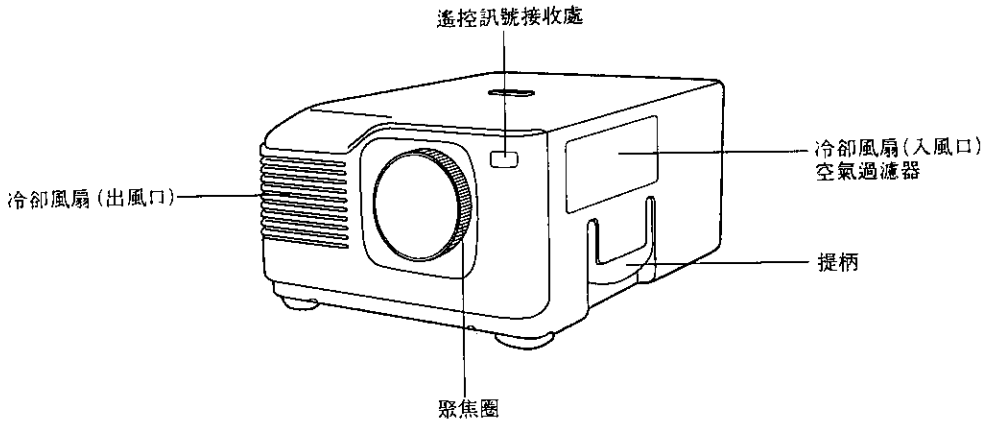


图1

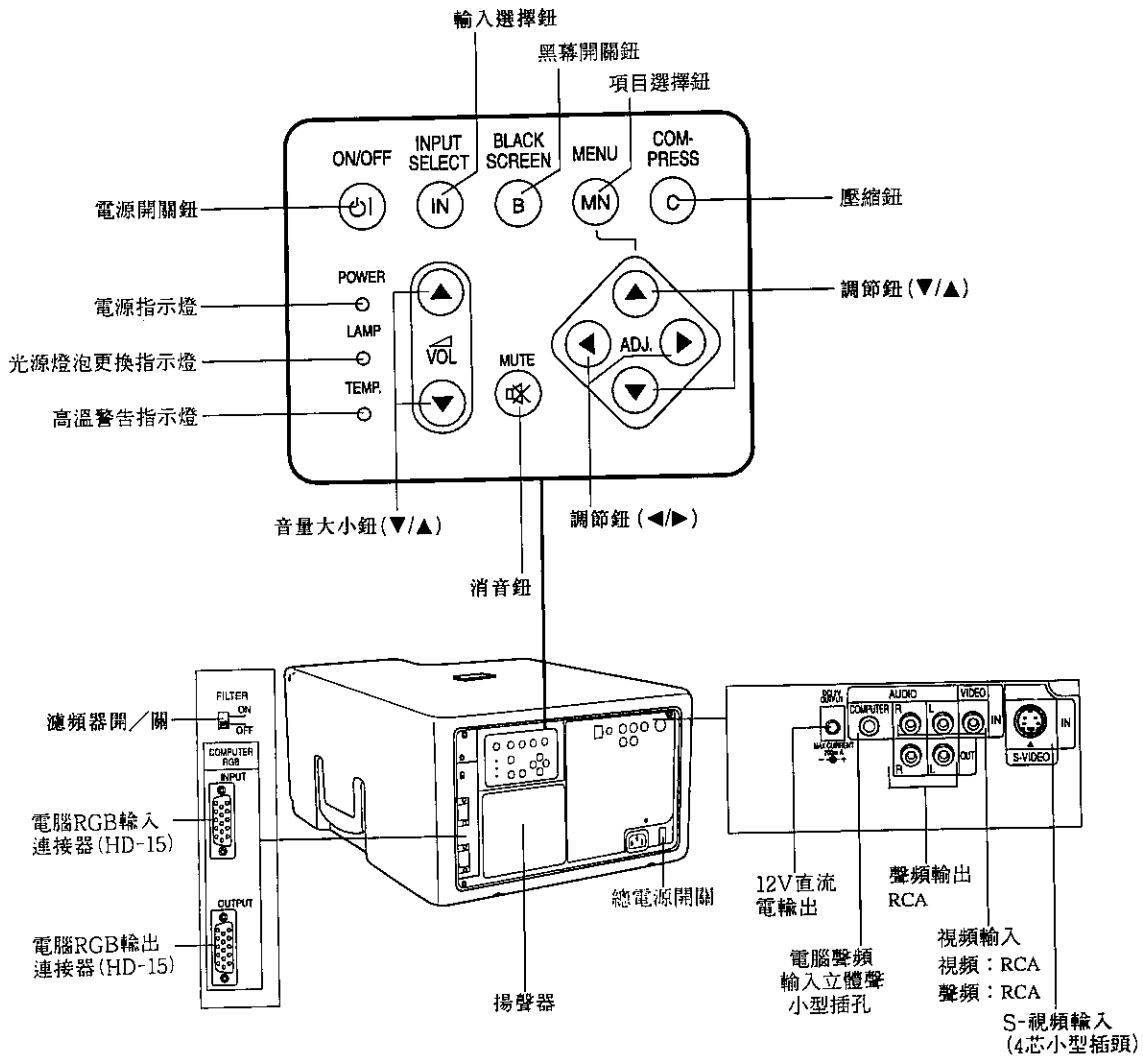
控制鈕的位置

前視



後視

投影機背面操作板

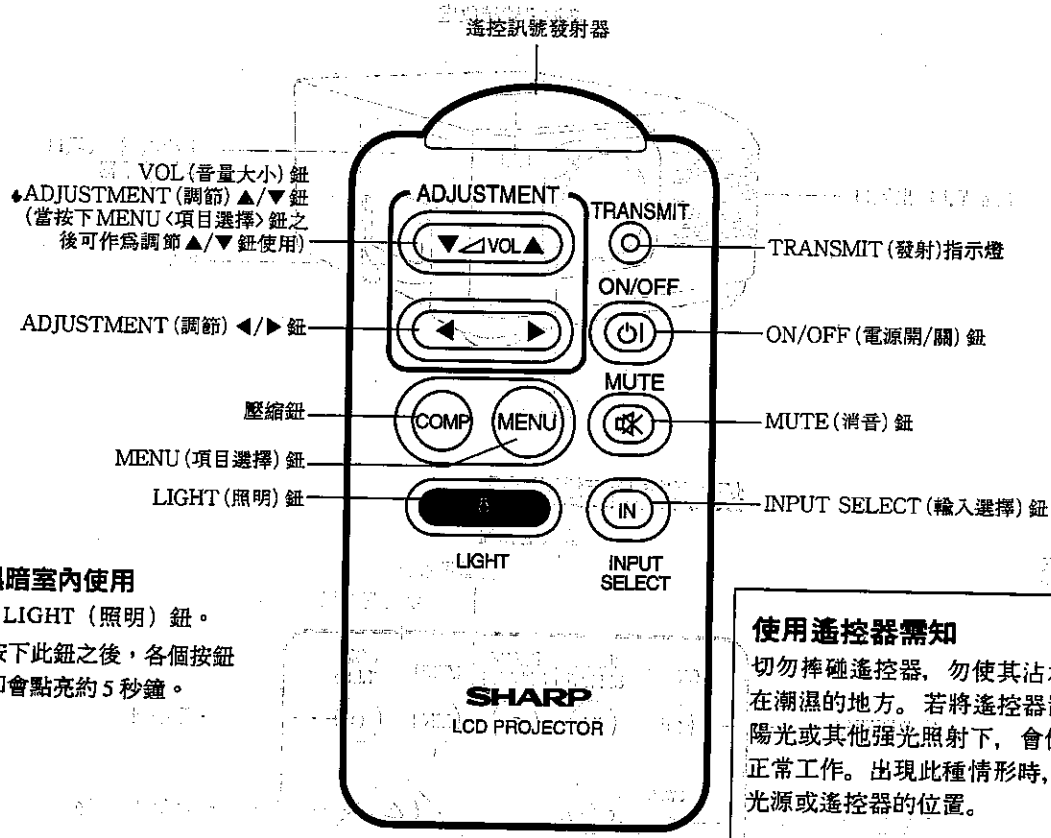


注意：

• 當大於200毫安的電流通過12V直流電輸出口時，投影機的安全裝置將啓動，自動關閉投影機並使其進入待機狀態。

遙控器的使用方法

遙控器



在黑暗室內使用

按下LIGHT（照明）鈕。

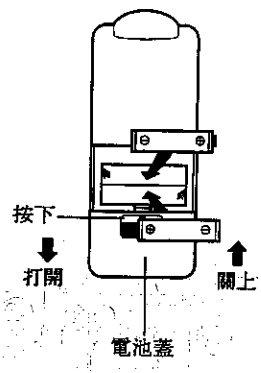
◇ 按下此鈕之後，各個按鈕即會點亮約5秒鐘。

使用遙控器需知

切勿摔碰遙控器，勿使其沾水或放置在潮濕的地方。若將遙控器置於直射陽光或其他強光照射下，會使其不能正常工作。出現此種情形時，請改變光源或遙控器的位置。

安裝電池

如圖所示卸下電池蓋，裝入2節AAA型電池。務請注意電池之極性必需符合電池槽內之(+)和(—)的標記。



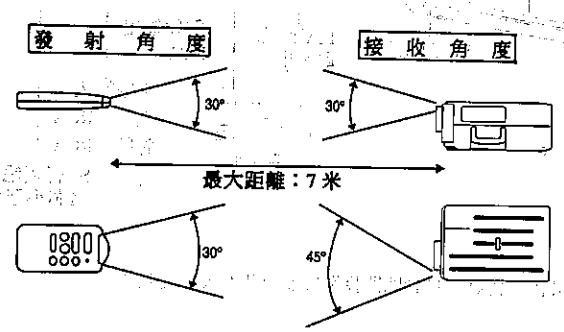
註：

電池使用不當會造成漏液或爆裂。

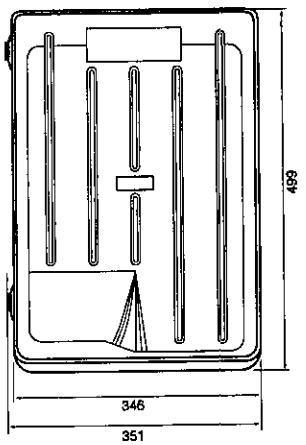
- 插入電池時必須使其極性與電池槽內標出的極性（＋）、（—）相一致。
- 若長期不用遙控器，應將電池取出。
- 始終保持電池的乾淨。
- 切勿將商標不同的電池混合使用。新舊電池的混合使用會使新電池的壽命縮短，而舊電池則會漏液。
- 當電池耗盡之後，應立刻取出以防漏液損傷遙控器。漏出的電池液體對皮膚有刺激，擦拭時應用乾布。
- 由於隨機附件的電池受庫存條件及庫存時間影響，可能會在短時間內用完。應盡早更換新的電池。

遙控器的操作範圍

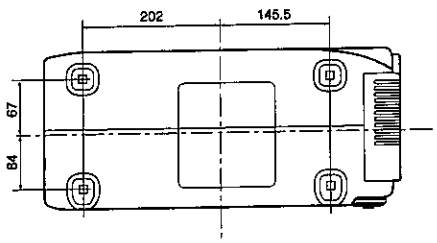
◇ 遙控器的操作按左圖所示。



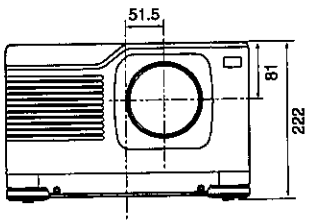
外型尺寸圖



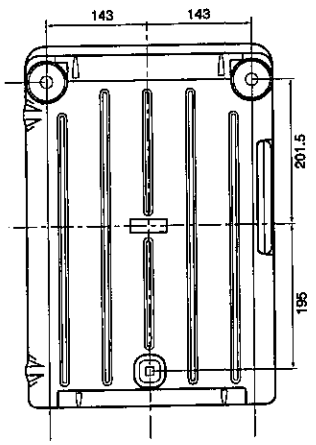
俯視圖



側視圖



正視圖



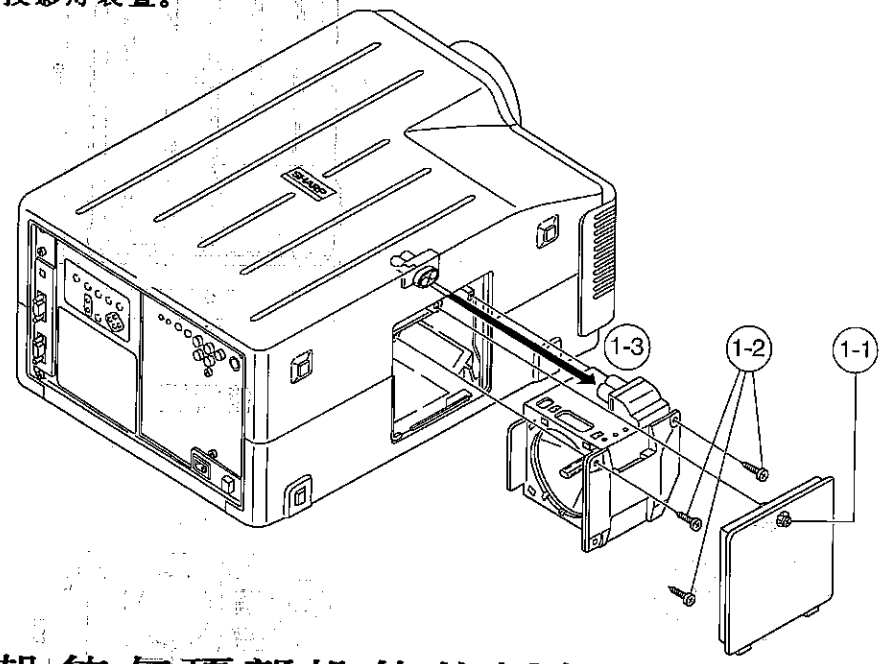
仰視圖

單位 mm(毫米)

主要部件的拆卸

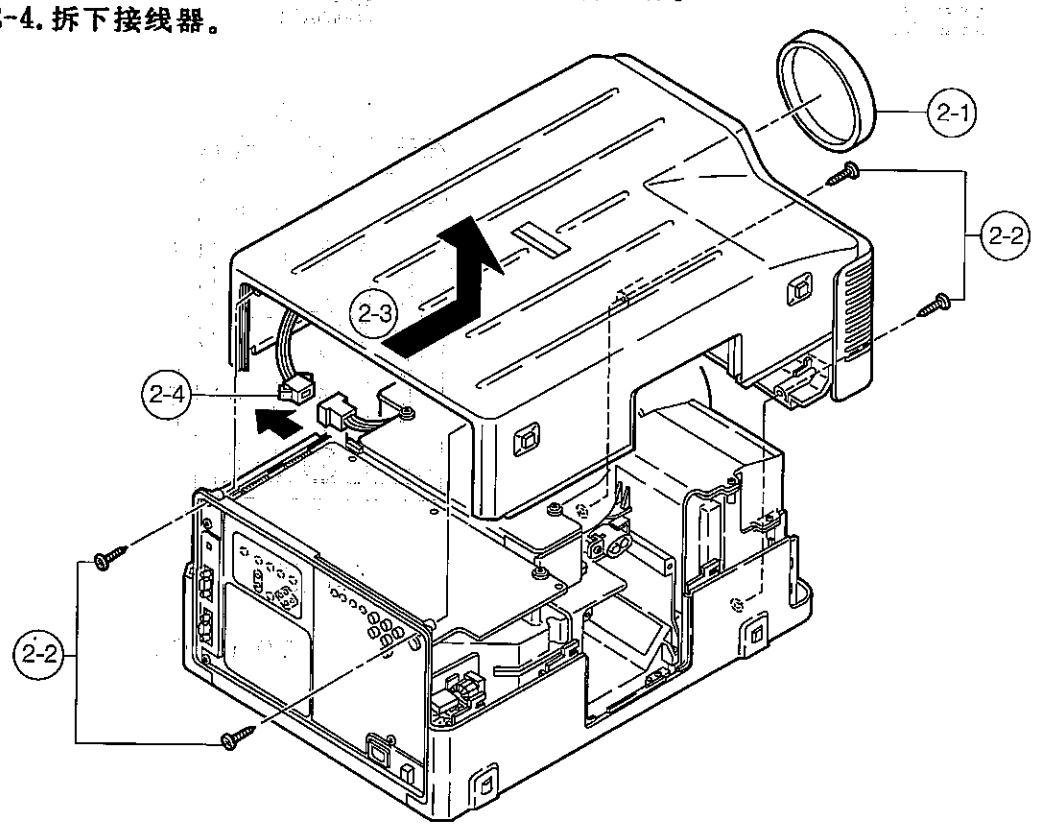
1. 投影灯装置的拆卸

1-1. 松去灯室盖上的固定螺丝，取下灯室盖。
1-2. 松去投影灯装置上的三支固定螺丝。
1-3. 取下投影灯装置。

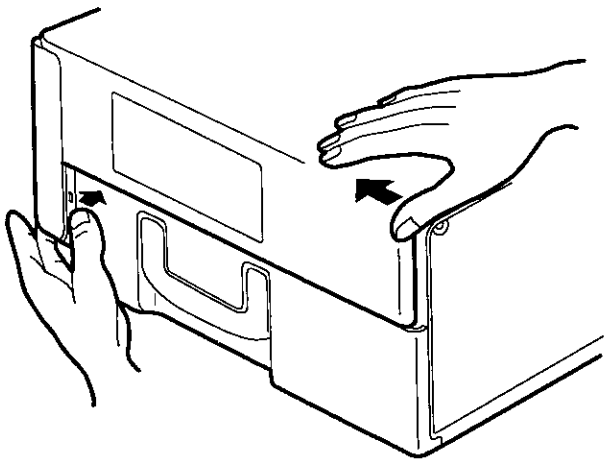


2. 前部机体与顶部机体的拆卸

2-1. 取下镜头保护盖后，将镜头推至底。
2-2. 松去顶部机体上的四支固定螺丝，取下之。
2-3. 将顶部机体向前滑移20mm左右，取出顶部机体。
2-4. 拆下接线器。



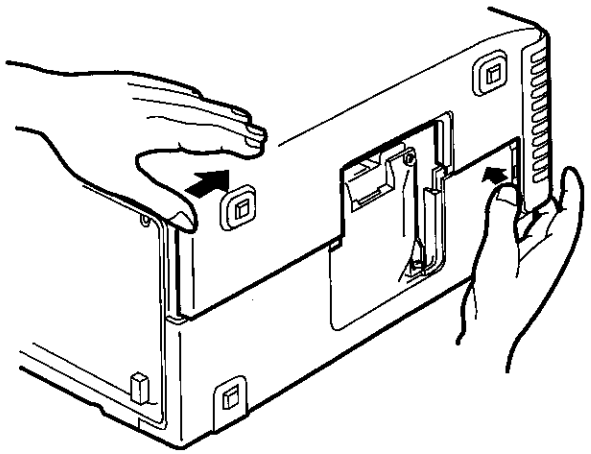
步骤2-3的详细图



顶部机体的拆卸

2-3-1. 用右手按下顶部机体装有把手侧的箭头所示位置，与其同时，用左手按下底部机体上的箭头所示位置。然后再用拇指往下推押钩件，并向前滑移顶部机体。

2-3-2. 用左手按下顶部机体装有投影灯侧的箭头所示位置，与其同时，用右手按下底部机体上的箭头所示位置。然后再用拇指往下推押钩件，并向前滑移顶部机体20mm左右。

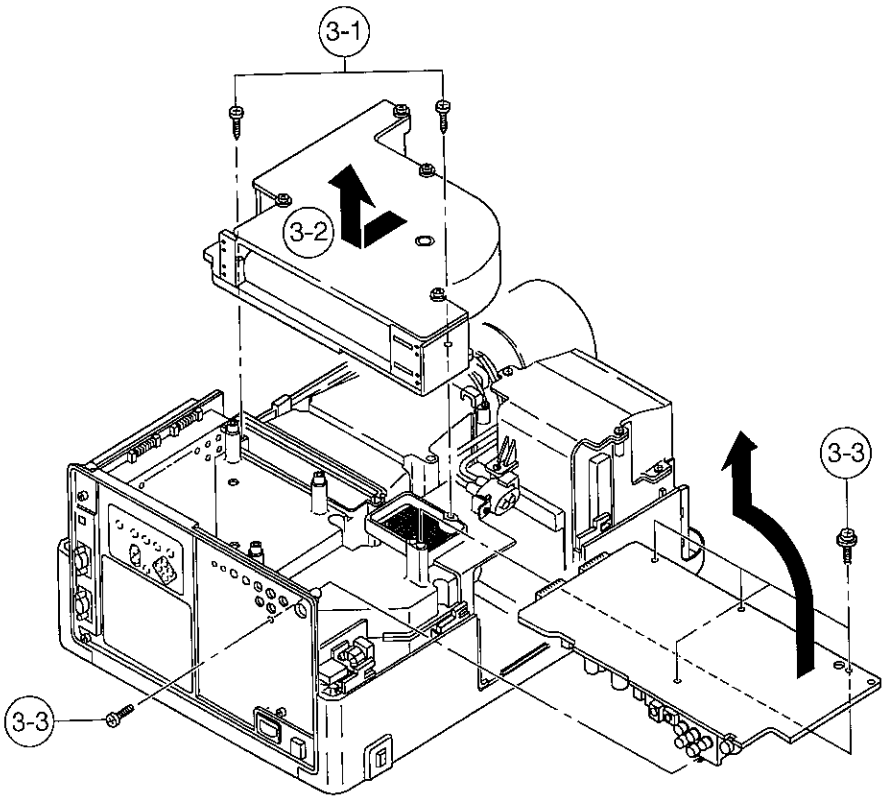


3. 风扇导管与主装置的拆卸

3-1. 松去风扇导管上的两支固定螺丝。

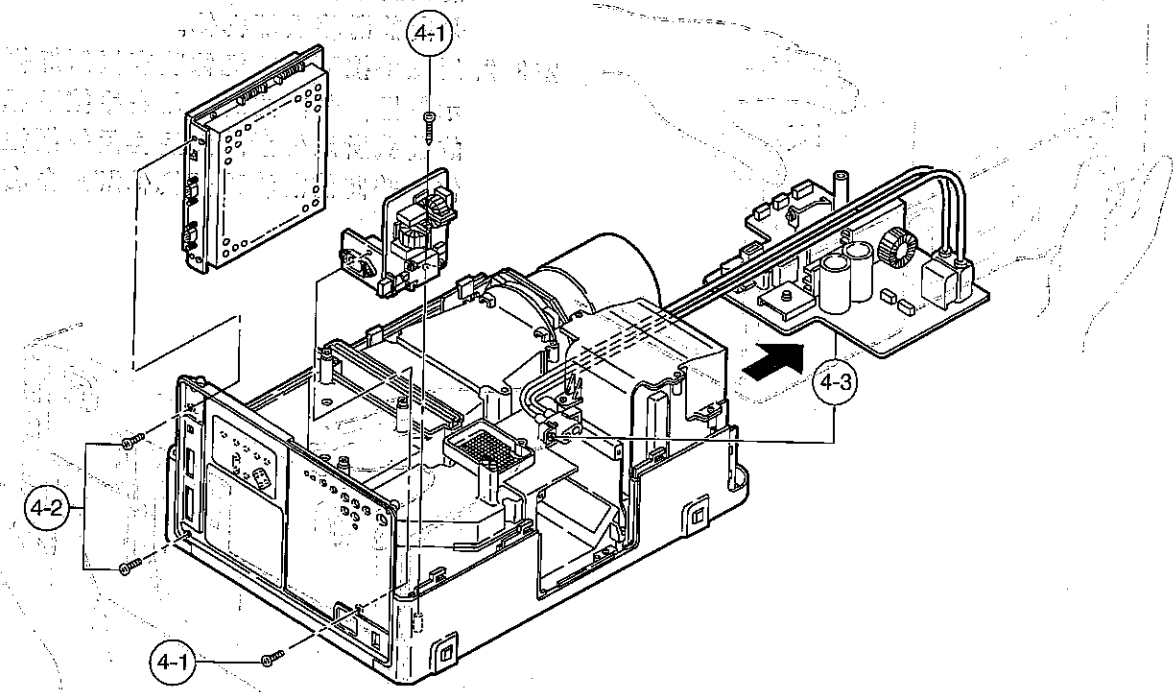
3-2. 提起风扇导管的后部，取下之。

3-3. 松去主装置上的五支固定螺丝，取下之。



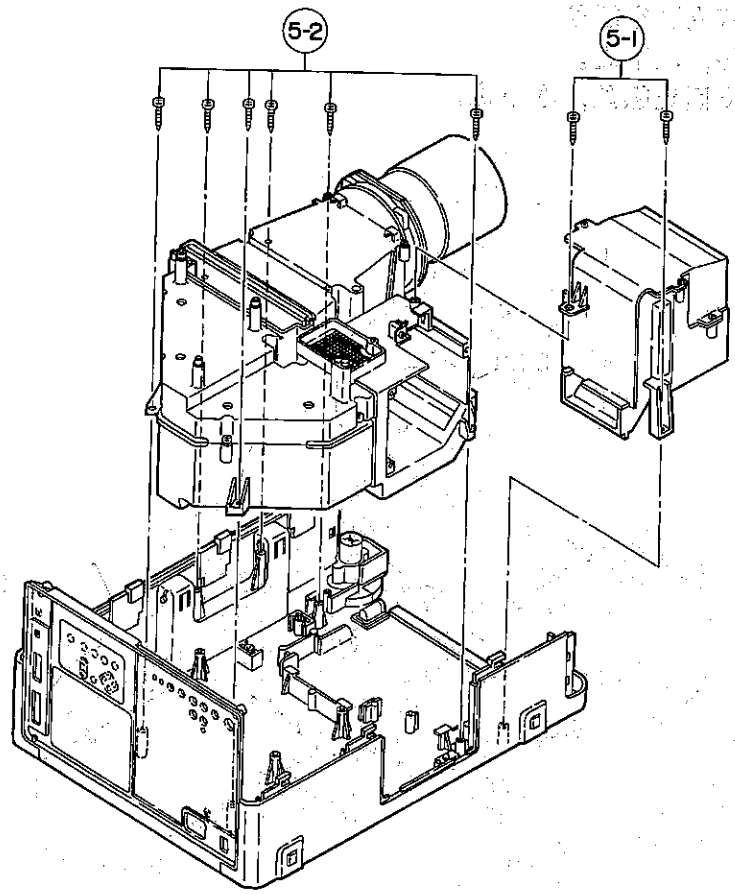
4. 其它印刷电路板的拆卸

4-1. 松去电源开关装置上的两支固定螺丝。
4-2. 松去PC/IF装置上的两支固定螺丝。
4-3. 松去电源/镇流装置上的固定螺丝，取下之。

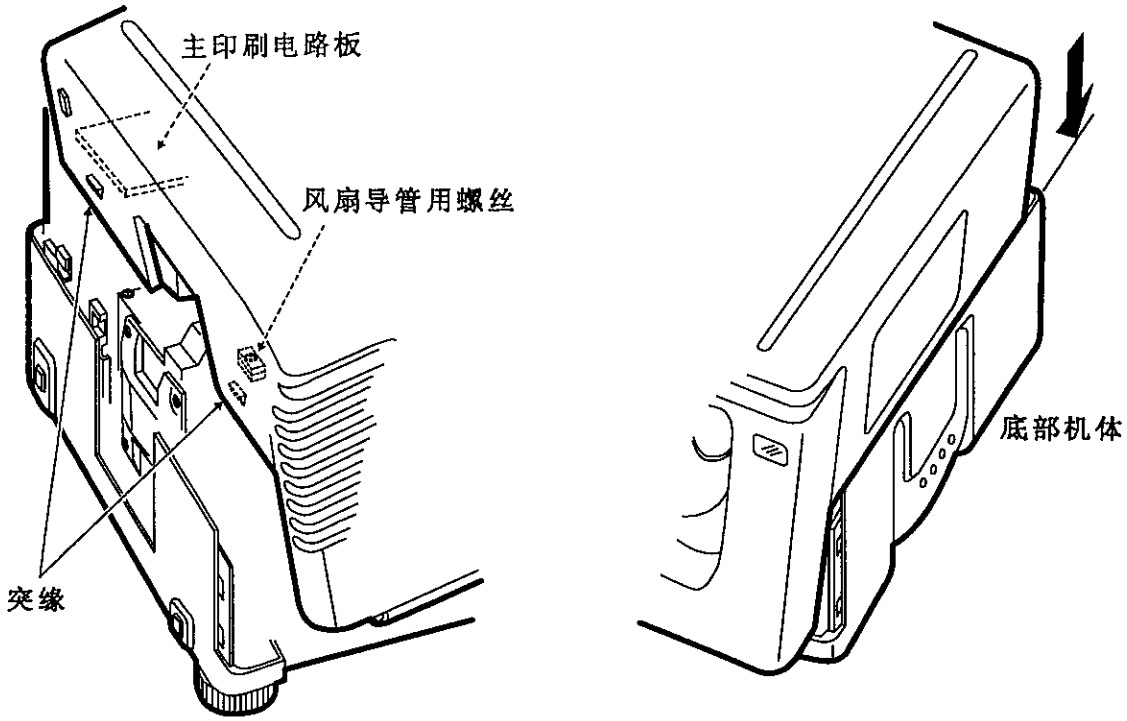


5. 光学机械装置的拆卸

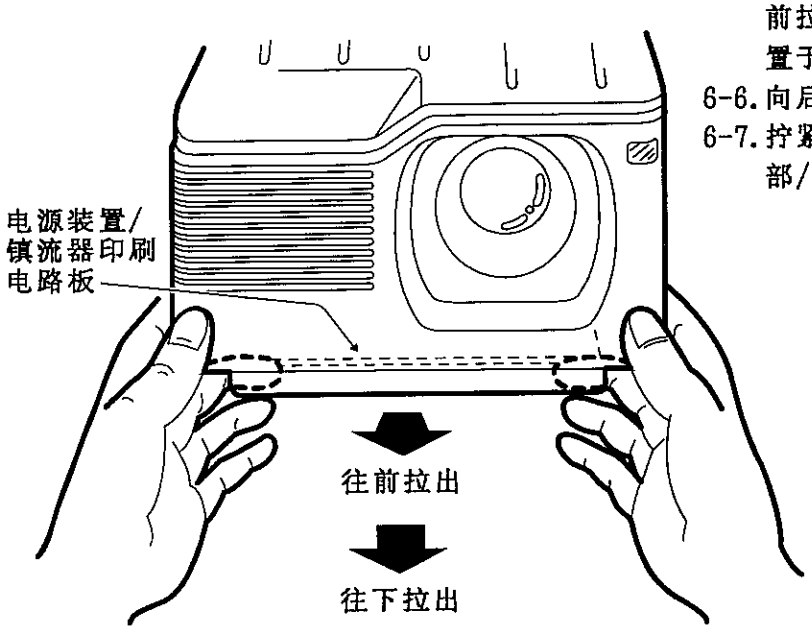
5-1. 松去风扇装置上的两支固定螺丝，取下之。
5-2. 松去光学机械装置上的六支固定螺丝，取下之。



6. 前部机体/顶部机体的组装

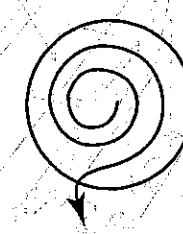


6-1. 将镜头推至底。
6-2. 再接步骤2-4中拆下的接线器于前部/顶部机体。
6-3. 安装顶部机体，使投影灯侧的钩件置于主电路印刷板与风扇导管之下。
6-4. 安装带有把手边的顶部机体于底部机体。
6-5. 挂两手于顶部机体的下面两边，然后稍微往前拉出，直至电源装置/镇流器印刷电路板置于顶部机体中为止。
6-6. 向后滑动前部/顶部机体。
6-7. 拧紧步骤2-2中松去的四支固定螺丝，使前部/顶部机体固定之。



■镜头及各反射镜的清擦

1. 镜头的清擦



・清擦剂：

一般以酒精和乙酞的混合剂为宜。使用时，根据使用环境的温度条件，适当调节两者的混合浓度比。通常以用其混合液拂拭镜头表面后立即挥发，不留液迹为最佳。乙酞混合量越多，挥发越快。

・警告：丙醚为具有挥发性和易燃液体，因此，在使用上应特别加以注意。切勿把丙醚或其蒸汽靠近火焰或有可能产生火花之处。

・清擦方法：

用洗净、漂白的软棉布或用商店贩卖的镜头纸拂拭为宜。清擦方法是，一手握住镜头筒体，另一手的拇指与食指挟住蘸有清擦剂的软布或镜头纸，按右图所示要领从中心向外围，划圆圈似地拂拭镜头表面。

注意，清擦时不宜用力过度，以免损伤镜头表面保护涂层。

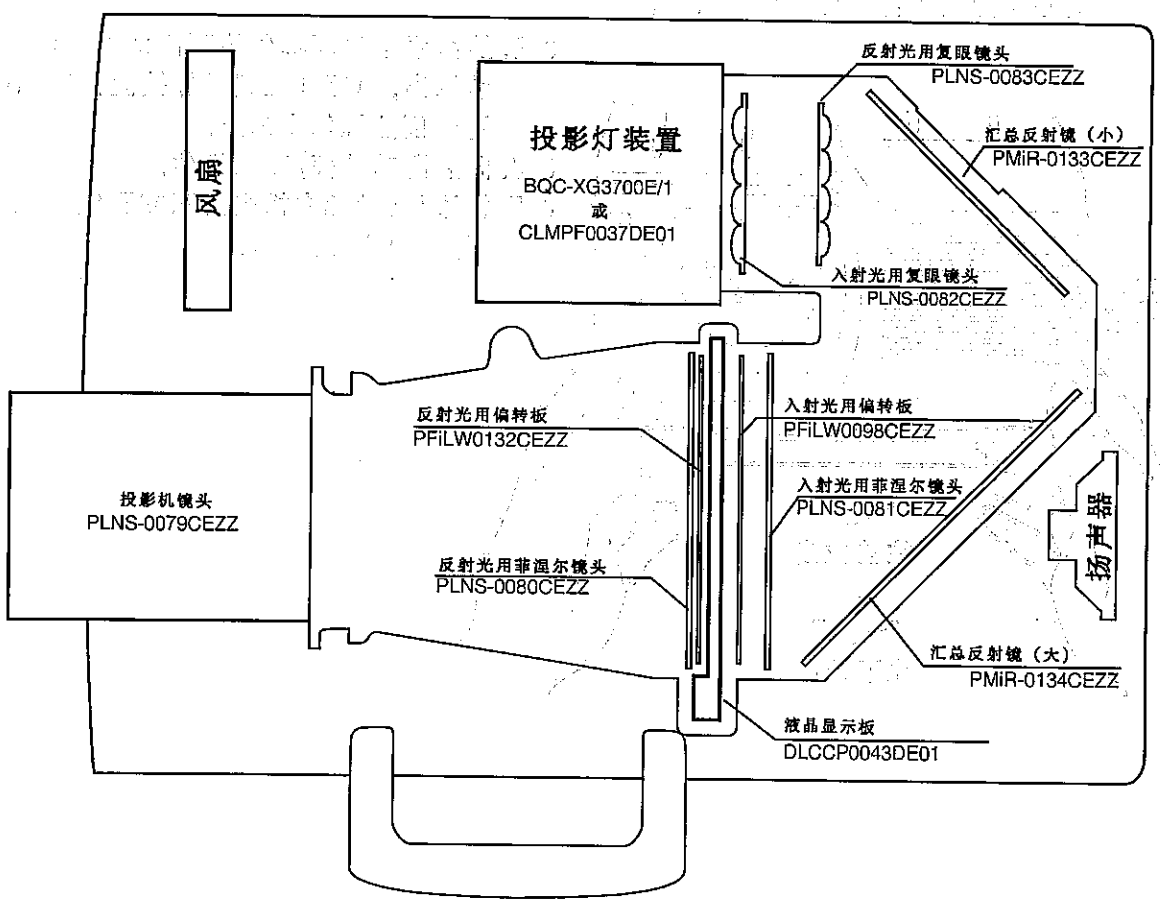
2. 反射镜的清擦

清擦反射镜表面时切勿用力过度，以免损伤其表面涂层。如反射镜表面沾有污垢，请先用酒精清擦后，再用干软布轻轻拂干。

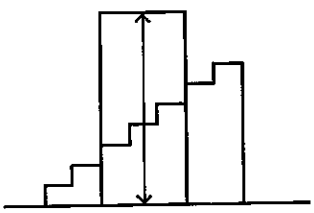
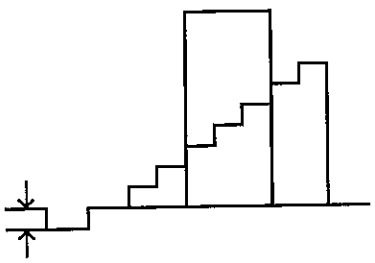
3. 清洁度的经常保持

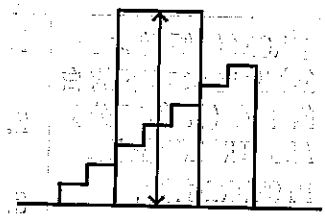
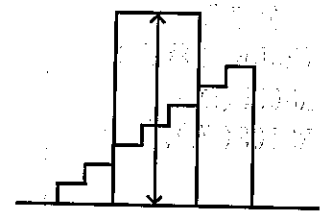
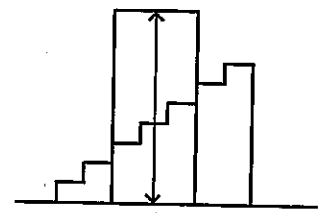
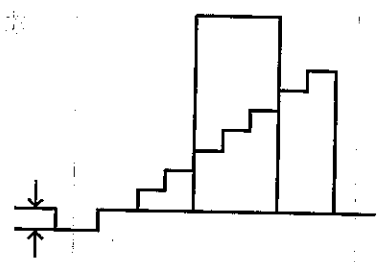
投影画质的清晰很大程度取决于液晶显示板以及液晶显示板侧场透镜的清洁程度。因此，应注意经常保持其清洁。

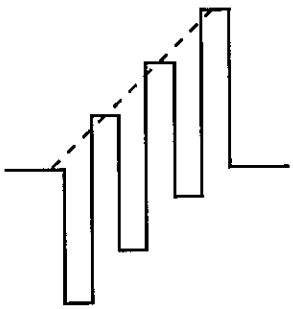
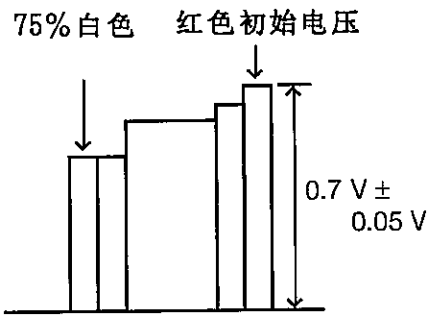
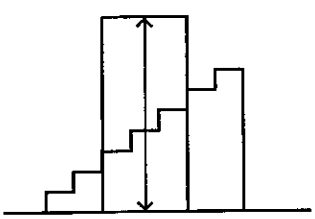
4. 光学系统的布置

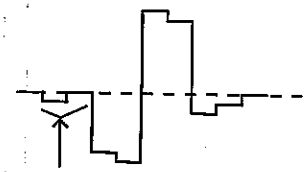
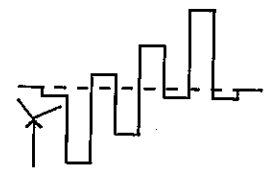


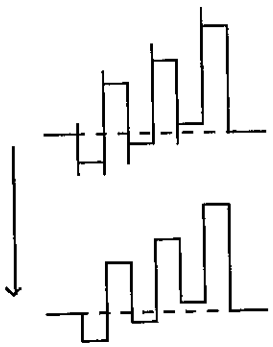
电 路 调 试

序号	调整部位	调 整 条 件	调 整 方 法
1	初始设定		· 先触按“RESET”键后再触按MENU键以选择各个设定状态。
2	于RGB(红绿蓝之三色)设定状态下的白色平衡(黑色部分) ADJ IN RGB位置, PICTURE位置, BRIGHT位置, R-DRIVE位置, B-DRIVE位置。	1. 于RGB设定状态下输入灰色色调(8等级)信号。 2. 触按S2001键呼出ADJ IN设定状态。然后选择RGB设定状态。 3. 接伏特计于TP601。	· 调节PICTURE位置，使销(1)处的电压值达至2.5±0.05V。 · 调节BRIGHT位置，使销(4)处的电压值达至1.4±0.05V。 · 调节R-DRIVE位置，使销(2)处的电压值达至1.5±0.05V。 · 调节B-DRIVE位置，使销(3)处的电压值达至1.5±0.05V。
3	白色平衡 (RGB设定状态) R8095(红) R8103(蓝)。	1. 于RGB设定状态下输入灰色色调信号。 (白色平衡位置明显地不符规定位置时，应进行该调整)。	· 调节R8095和R8103，使白色平衡位置调至规定位置。(出厂时已在PC-IF印刷电路板上进行调整)。
4	AGC(自动增益控制) R1515(主)	1. 接收NTSC制式彩条信号。 2. 接示波器于TP801销(1)与GND(接地端)之间。	· 调节R1515，使熄灭脉冲部分与白色部分间的电平达至0.55±0.05VP-P。 
5	辅助DC (DAC)	1. 接收NTSC制式彩条信号。 2. 触按S2001键，设定于下记状态。 主项目：VIDEO1 副项目：SUB-DC 3. 接示波器于TP801销(6)与GND(接地端)之间。	· 触按薄膜开关上的VIDEO ADJUSTMENT＋/—键，使消隐电平与0色调电平一致。 

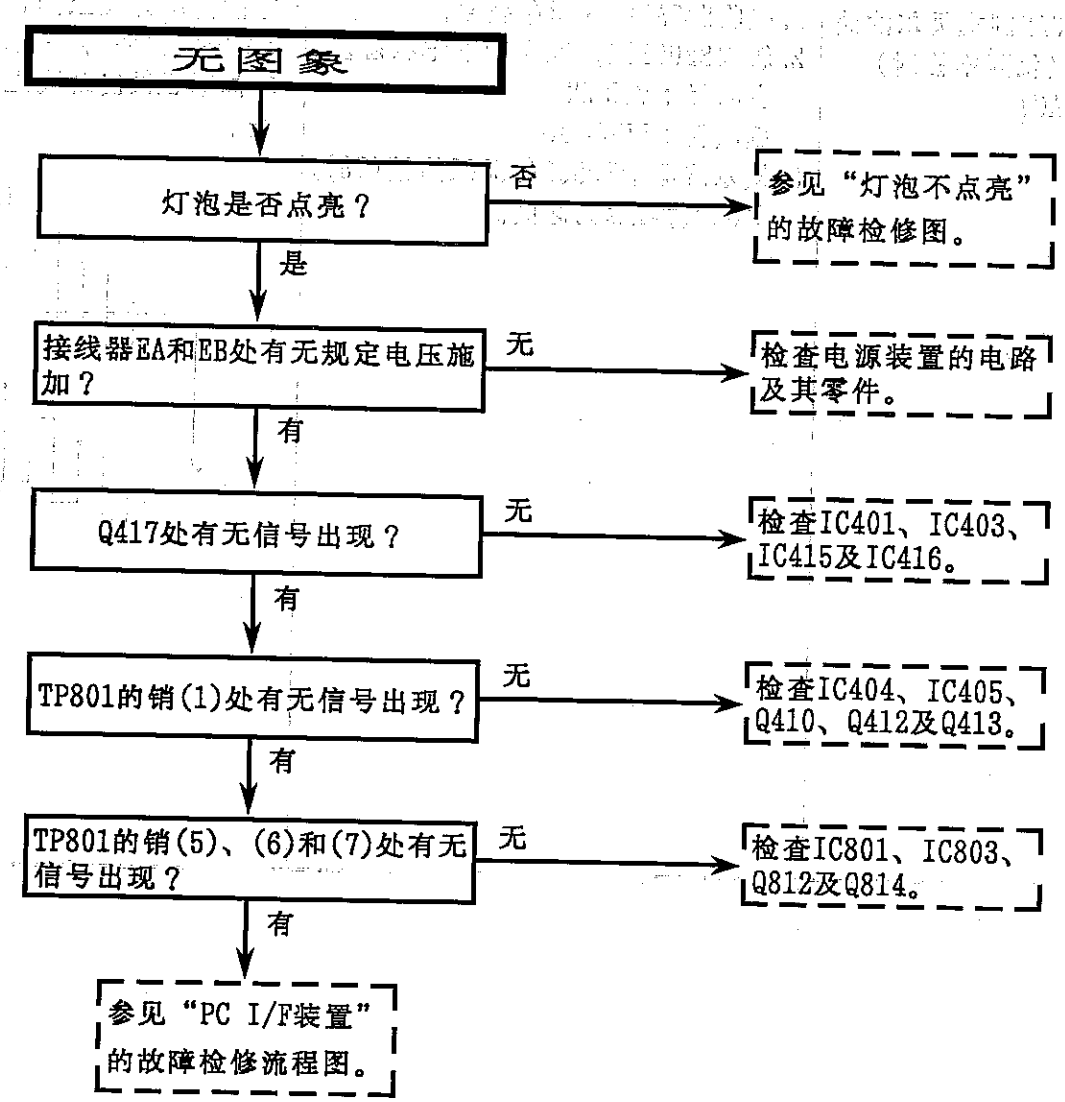
序号	调整部位	调 整 条 件	调 整 方 法
6	副对比度 (DAC)	1.接收NTSC制式彩条信号。 2.触按S2001键，设DAC于下记状态。 主项目：VIDEO1 副项目：SUB-C 3.接示波器于TP801销(6)与GND(接地端)之间。	·触按薄膜开关的VIDEO ADJUSTMENT+/-键，调熄灭脉冲部份与100%白色部分间的电平为0.6±0.05Vp-p。 
7	红色副对比度 R858	1.接收NTSC制式彩条信号。 2.接示波器于TP801销(5)与GND(接地端)之间。	·调节R858，使熄灭脉冲部分与100%白色部分间的电平达至0.6±0.05Vp-p。 
8	蓝色副对比度 R853	1.接收NTSC制式彩条信号。 2.接示波器于TP801销(7)与GND(接地端)之间。	·调节R853，使熄灭脉冲部分与100%白色部分间的电平达至0.6±0.05Vp-p。 
9	辅助DC (DAC)	1.接收NTSC制式彩条信号。 2.触按S2001键，设定于下记状态。 主项目：VIDEO2 副项目：SUB-BIAS(销(6)) R-BIAS(销(5)) B-BIAS(销(7)) 3.在TP801上的各个销与GND(接地端)之间分别连接示波器。	·触按薄膜开关上的VIDEO ADJUSTMENT+/—键，使消隐电平与0色调电平达至相同程度。 

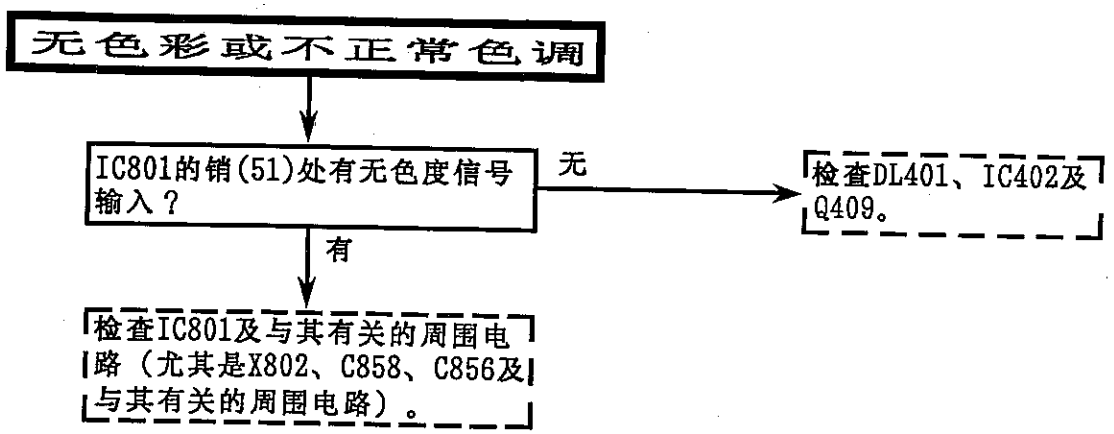
序号	调整部位	调 整 条 件	调 整 方 法
10	色调 (DAC)	1.接收NTSC制式彩条信号。 2.触按S2001键，设定于下记状态。 主项目：VIDEO1 副项目：TINT 3.接示波器于TP802与TP808之间。	·触按薄膜开关的VIDEO ADJUST-MENT+/-键，使蓝色亮度信号波形呈下图所示的各波峰可为以斜线所连的规定要求。 
11	彩色浓度 (DAC)	1.接收NTSC制式彩条信号。 2.触按S2001键，设定于下记状态。 主项目：VIDEO1 副项目：COLOR 3.接示波器于TP801销(5)与GND(接地端)之间。	·触按薄膜开关上的VIDEO ADJUSTMENT+/-键，使红色的初始电压达至0.7V±0.05V。 
12	扫描变换振荡 L4101 (扫描变换器)	1.短接TP401的销(3)与(2)(GND)之间。 2.接计频器于TP4101销(1)与GND(接地端)之间。	·调节L4101，使计频器的读数达至15.625±0.01kHz。
13	PAL制式亮度信号电平(DAC)	1.接收PAL制式彩条信号。 2.触按S2001键，设定于下记状态。 主项目：VIDEO3 副项目：PAL-SUB-C 3.接示波器于TP801销(1)与GND(接地端)之间。	·触按薄膜开关上的VIDEO ADJUSTMENT+/—键，使信号的黑色部分与白色部分(阴极)间的电平达至0.6±0.05Vp-p。 

序号	调整部位	调 整 条 件	调 整 方 法
14	SECAM制式红色亮度信号(DAC)	1.接收SECAM制式彩条信号。 2.触按S2001键，设定于下记状态。 主项目：VIDEO3 副项目：SCM-R-Y 3.接示波器于TP809(IC802的销(30))与GND(接地端)之间。 ·触按薄膜开关上的VIDEO ADJUST-MENT+/—键，使两端的电平达至相同程度。	·触按薄膜开关上的VIDEO ADJUSTMENT+/—键，使左右边的电平达至相同程度。  把电平调至 相同程度
15	SECAM制式蓝色亮度信号(DAC)	1.接收SECAM制式彩条信号。 2.触按S2001键，设定于下记状态。 主项目：VIDEO3 副项目：SCM-B-Y 3.接示波器于TP808(IC802的销(29))与GND(接地端)之间。	·触按薄膜开关上的VIDEO ADJUSTMENT+/—键，使左右边的电平达至相同程度。  把电平调至 相同程度
16	SECAM制式信号幅度(DAC)	1.接收SECAM制式彩条信号。 2.触按S2001键，设定于下记状态。 主项目：VIDEO3 副项目：SCM-AMP 3.接示波器于TP801销(7)与GND(接地端)之间。	·触按薄膜开关上的VIDEO ADJUSTMENT+/—键，使下图所示的规定电平尽可能接近75%白色电平。 75%白色电平 此电平尽可能接近75%白色电平。
17	PAL制式水平相位(DAC)	1.接收PAL制式单象管图案信号。 2.触按S2001键，设定于下记状态。 主项目：VIDEO3 副项目：PAL-H	·触按薄膜开关上的VIDEO ADJUSTMENT+/—键，使左右边的过扫描达至相同程度。

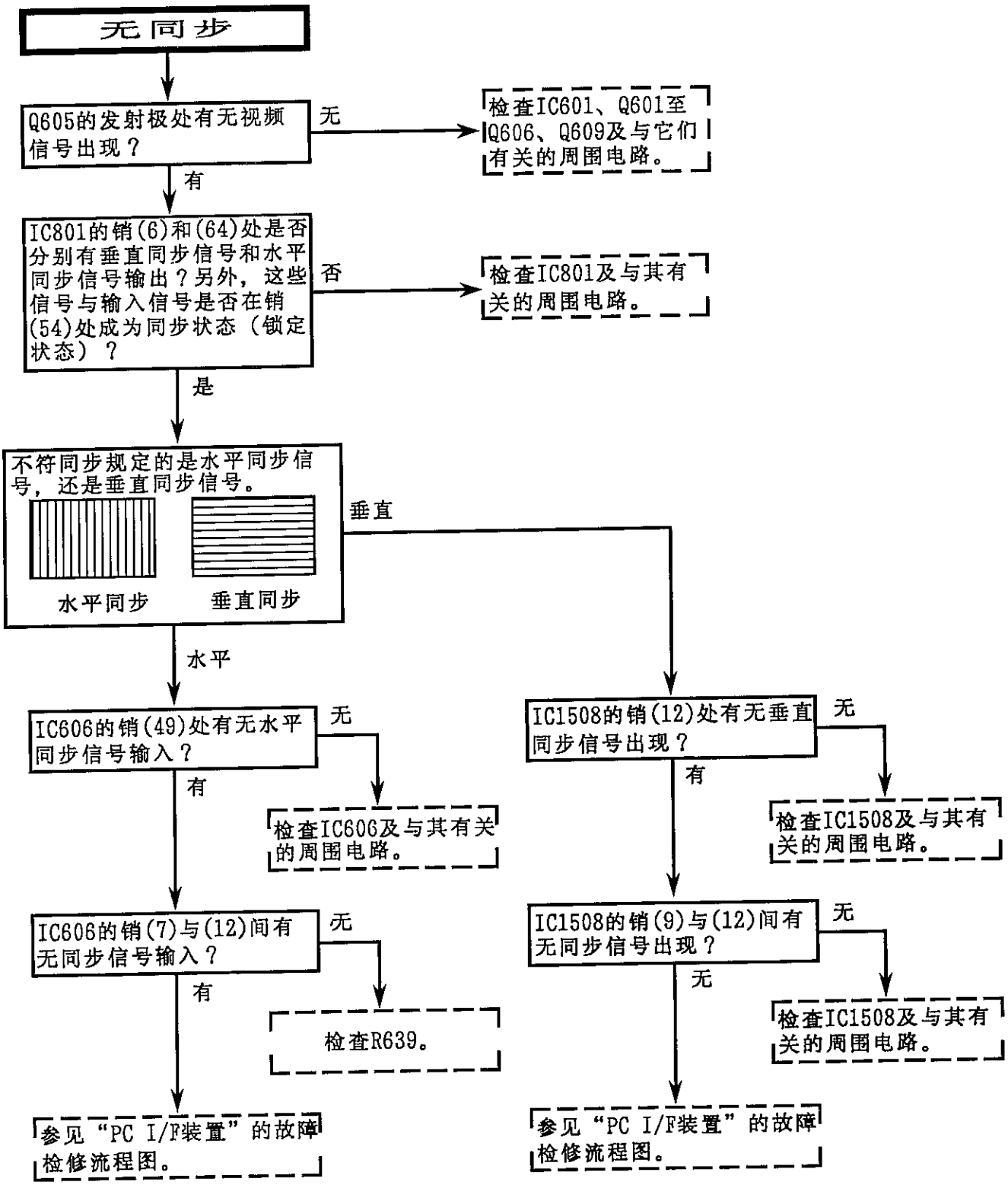
序号	调整部位	调 整 条 件	调 整 方 法
18	SECAM制式贝尔滤波器(仅限维修时)(DAC)	1.接收SECAM制式彩条信号。 2.触按S2001键，设定于下记状态。 主项目：VIDEO3 副项目：BELL-FO 3.接示波器于TP808(IC802的销(29))与GND(接地端)之间。	·触按薄膜开关上的VIDEO ADJUSTMENT＋/—键，尽可能使不同彩色间出现明显的边界线为止。 

故障检修流程图

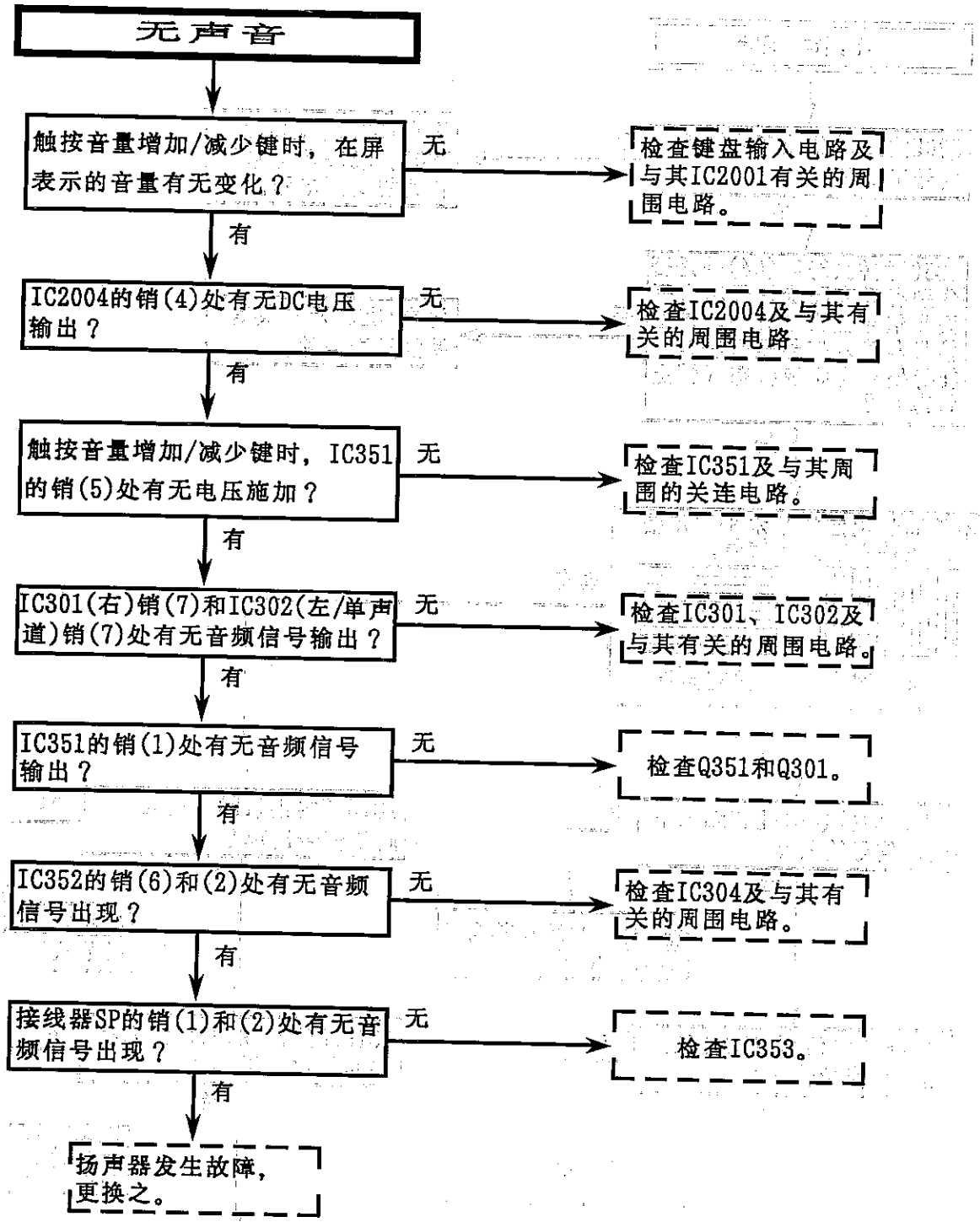

无图象
灯泡是否点亮？
否
参见“灯泡不点亮”的故障检修图。
是
接线器EA和EB处有无规定电压施加？
无
检查电源装置的电路及其零件。
有
Q417处有无信号出现？
无
检查IC401、IC403、IC415及IC416。
有
TP801的销(1)处有无信号出现？
无
检查IC404、IC405、Q410、Q412及Q413。
有
TP801的销(5)、(6)和(7)处有无信号出现？
无
检查IC801、IC803、Q812及Q814。
有
参见“PC I/F装置”的故障检修流程图。


无色彩或不正常色调
IC801的销(51)处有无色度信号输入？
无
检查DL401、IC402及Q409。
有
检查IC801及与其有关的周围电路（尤其是X802、C858、C856及与其有关的周围电路）。

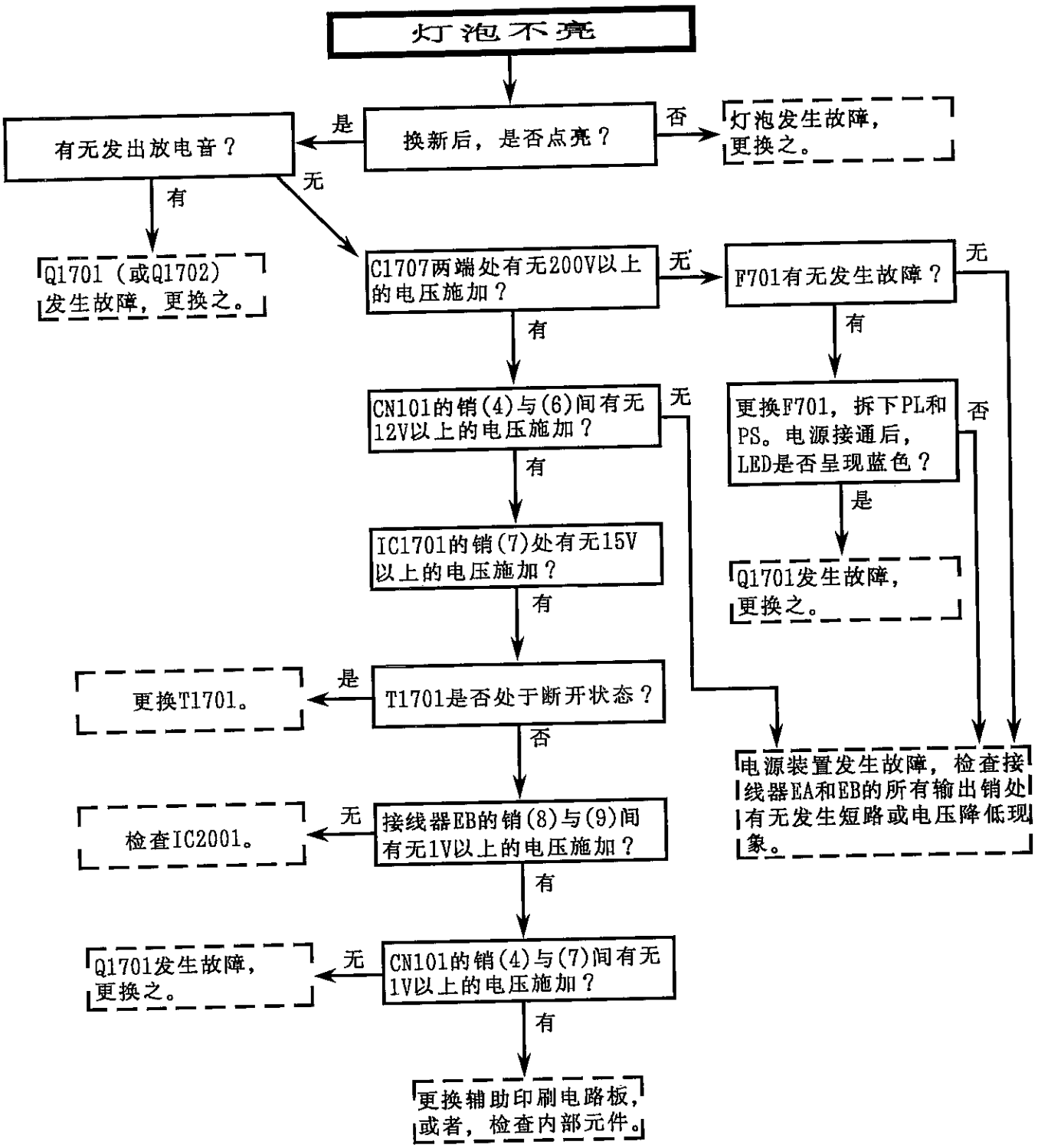
故障检修流程图（接上页）


无同步
Q605的发射极处有无视频信号出现？
无
检查IC601、Q601至Q606、Q609及与它们有关的周围电路。
有
IC801的销(6)和(64)处是否分别有垂直同步信号和水平同步信号输出？另外，这些信号与输入信号是否在销(54)处成为同步状态（锁定状态）？
否
检查IC801及与其有关的周围电路。
是
不符同步规定的是水平同步信号，还是垂直同步信号。
水平同步
垂直同步
垂直
水平
IC606的销(49)处有无水平同步信号输入？
无
检查IC606及与其有关的周围电路。
有
IC606的销(7)与(12)间有无同步信号输入？
无
检查R639。
有
参见“PC I/F装置”的故障检修流程图。
IC1508的销(12)处有无垂直同步信号出现？
无
检查IC1508及与其有关的周围电路。
有
IC1508的销(9)与(12)间有无同步信号出现？
无
检查IC1508及与其有关的周围电路。
无
参见“PC I/F装置”的故障检修流程图。

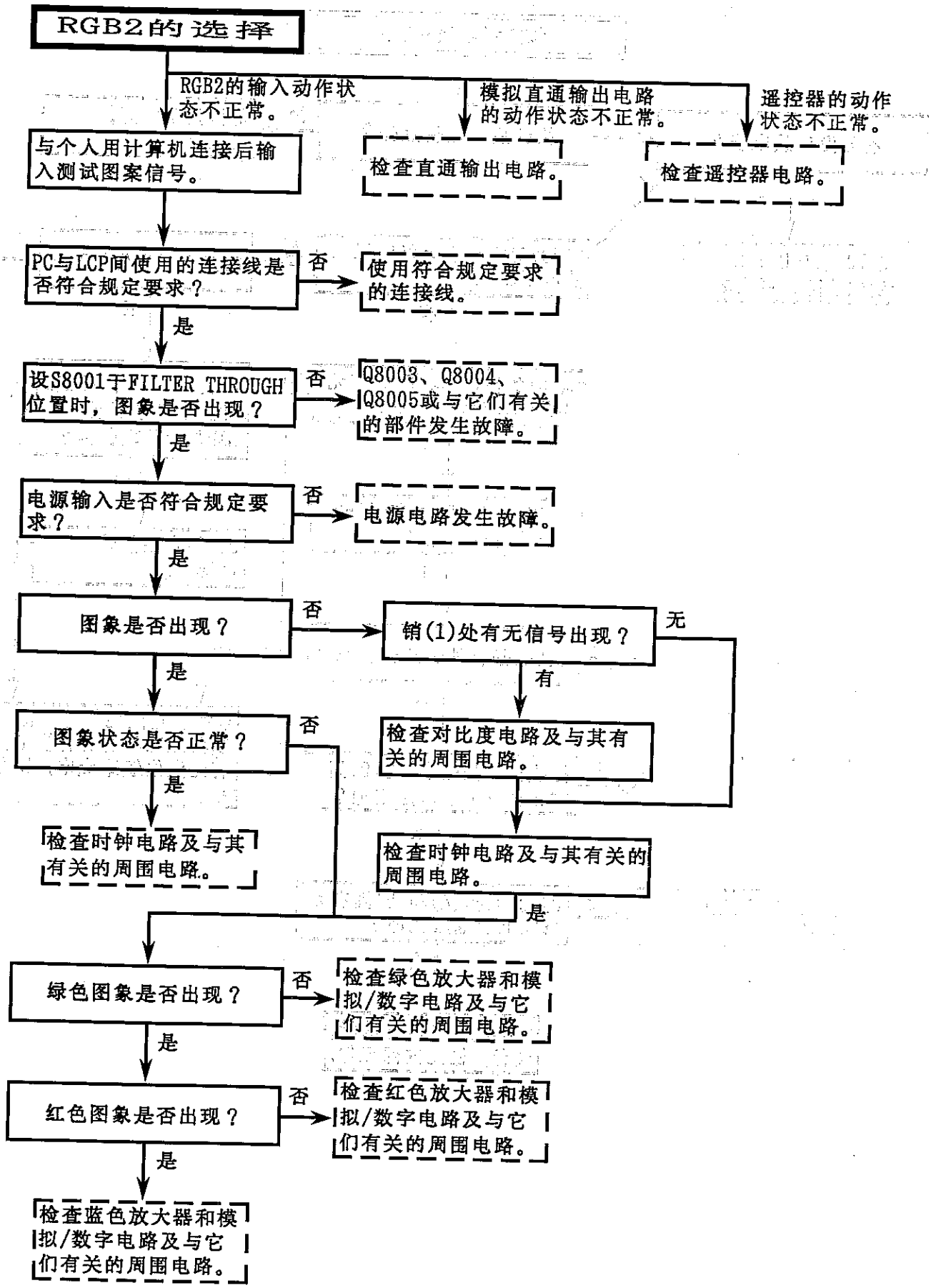
故障检修流程图（接上页）


无声音
触按音量增加/减少键时，在屏表示的音量有无变化？
无
检查键盘输入电路及与其IC2001有关的周围电路。
有
IC2004的销(4)处有无DC电压输出？
无
检查IC2004及与其有关的周围电路
有
触按音量增加/减少键时，IC351的销(5)处有无电压施加？
无
检查IC351及与其周围的关连电路。
有
IC301(右)销(7)和IC302(左/单声道)销(7)处有无音频信号输出？
无
检查IC301、IC302及与其有关的周围电路。
有
IC351的销(1)处有无音频信号输出？
无
检查Q351和Q301。
有
IC352的销(6)和(2)处有无音频信号出现？
无
检查IC304及与其有关的周围电路。
有
接线器SP的销(1)和(2)处有无音频信号出现？
无
检查IC353。
有
扬声器发生故障，更换之。

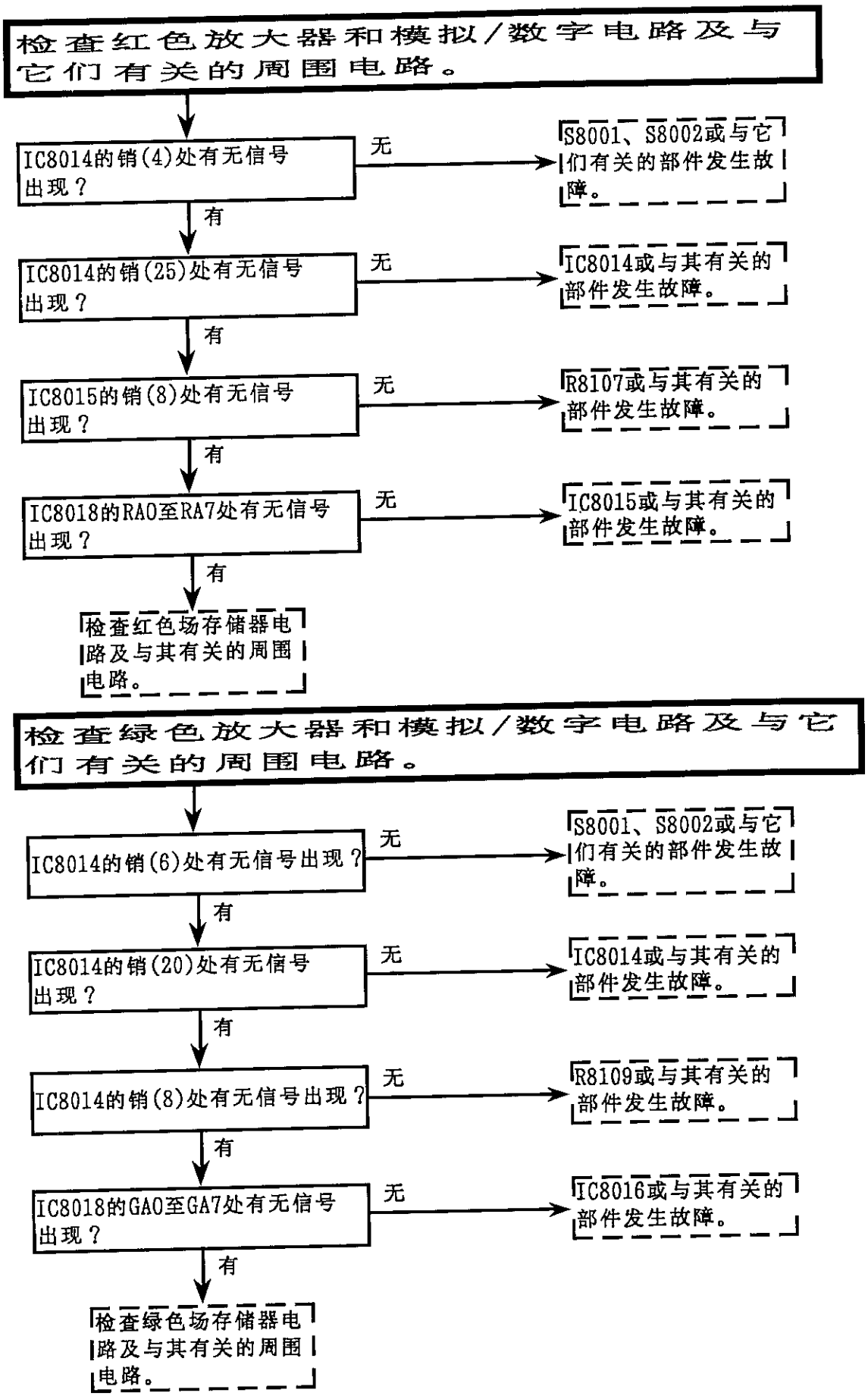
故障检修流程图（接上页）


灯泡不亮
换新后，是否点亮？
是
否
灯泡发生故障，更换之。
有无发出放电音？
有
无
Q1701（或Q1702）发生故障，更换之。
C1707两端处有无200V以上的电压施加？
无
F701有无发生故障？
无
有
有
CN101的销(4)与(6)间有无12V以上的电压施加？
无
更换F701，拆下PL和PS。电源接通后，LED是否呈现蓝色？
否
有
是
IC1701的销(7)处有无15V以上的电压施加？
Q1701发生故障，更换之。
有
更换T1701。
是
T1701是否处于断开状态？
否
电源装置发生故障，检查接线器EA和EB的所有输出销处有无发生短路或电压降低现象。
检查IC2001。
无
接线器EB的销(8)与(9)间有无1V以上的电压施加？
有
Q1701发生故障，更换之。
无
CN101的销(4)与(7)间有无1V以上的电压施加？
有
更换辅助印刷电路板，或者，检查内部元件。

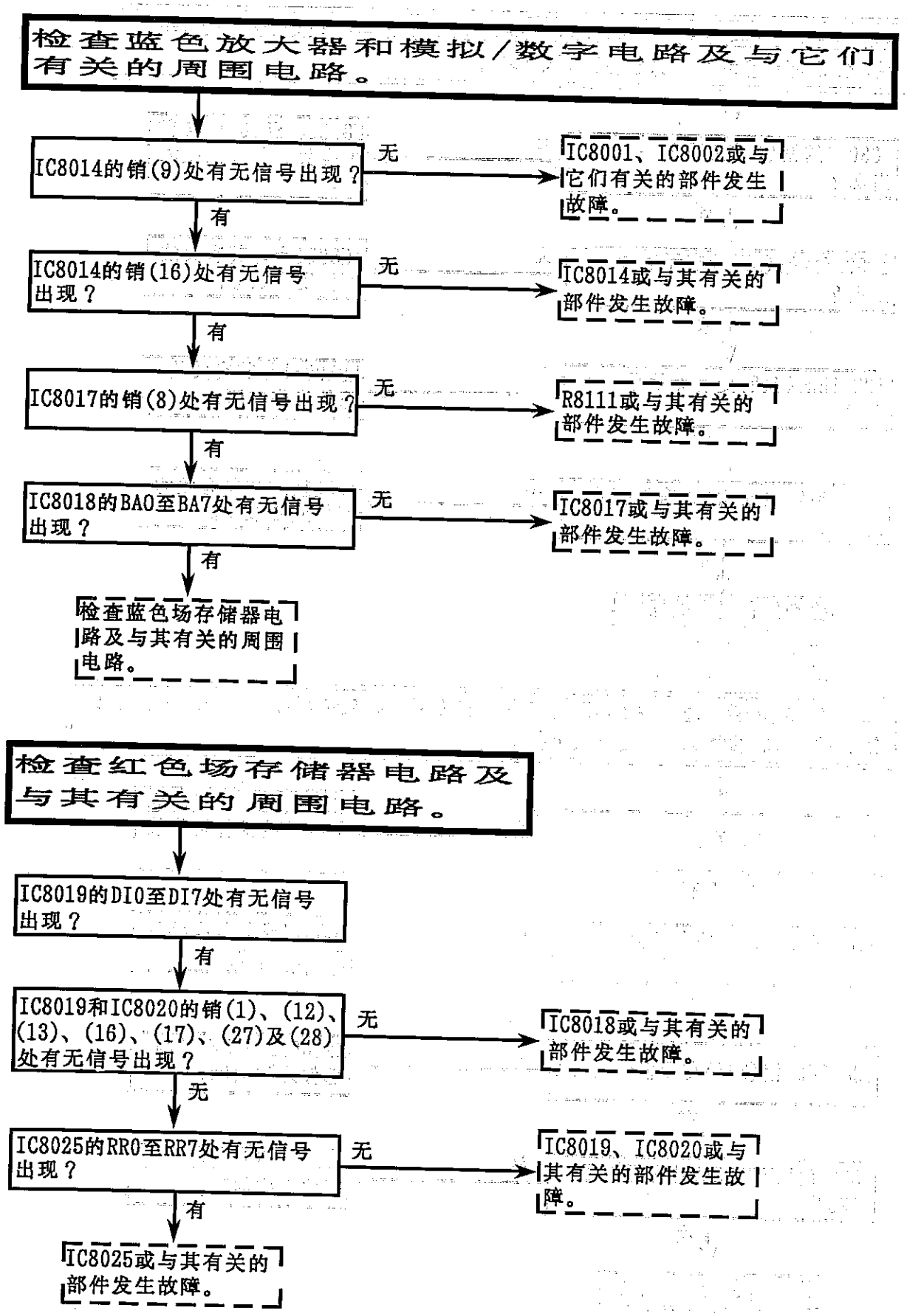
PC/IF装置的故障检修流程图



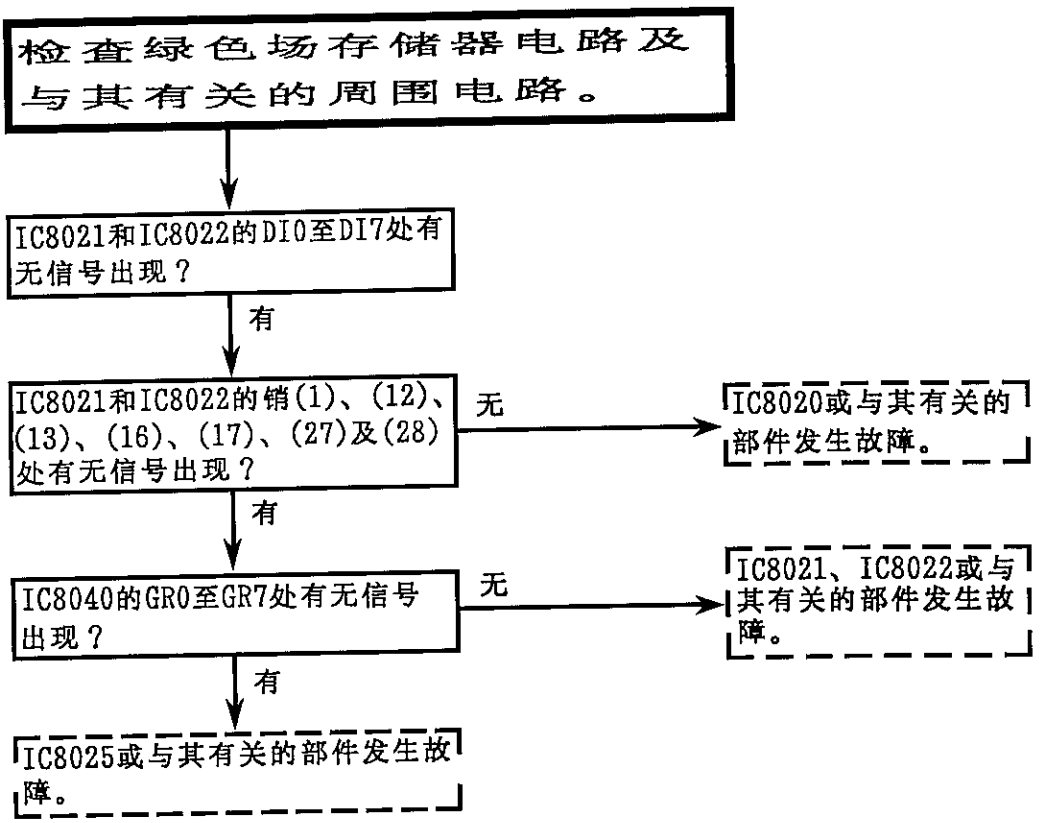
PC/IF装置的故障检修流程图（接上页）

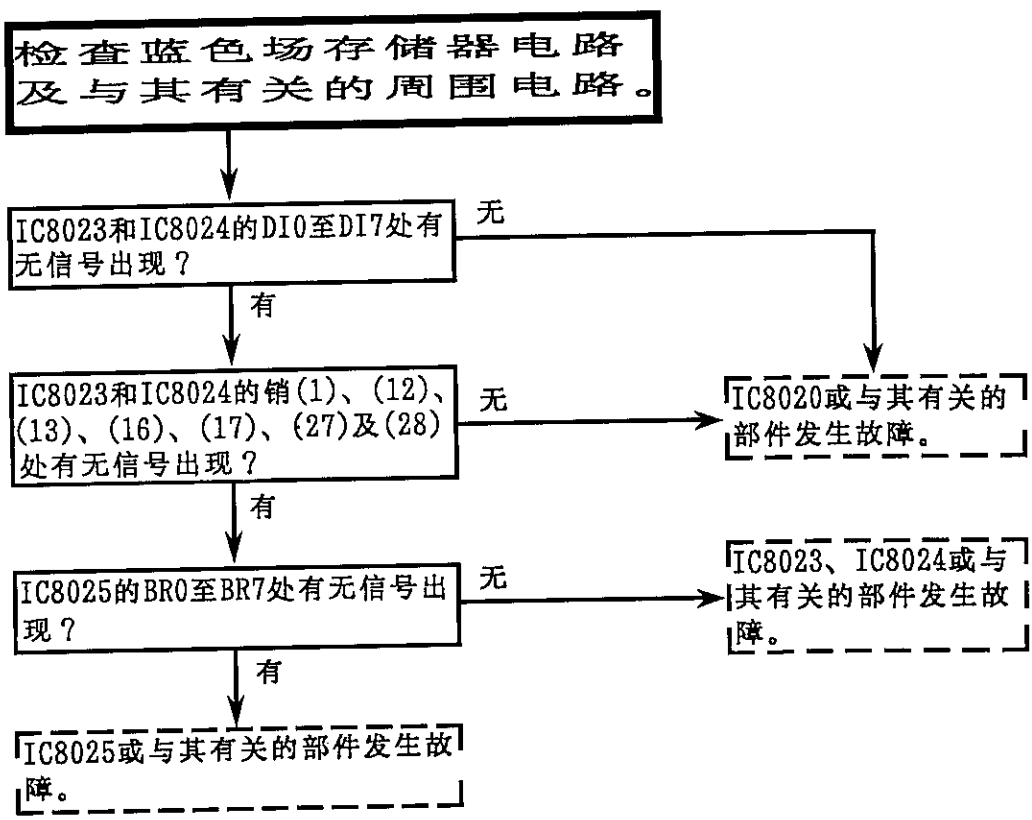


PC/IF装置的故障检修流程图（接上页）

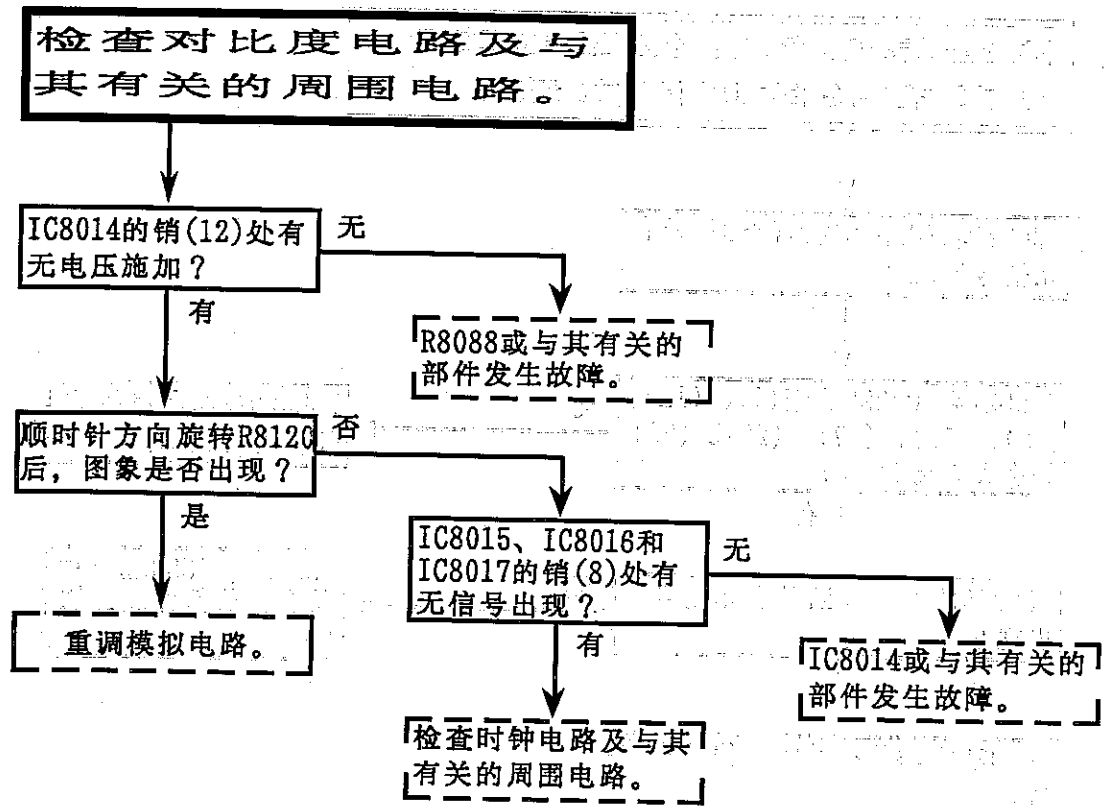


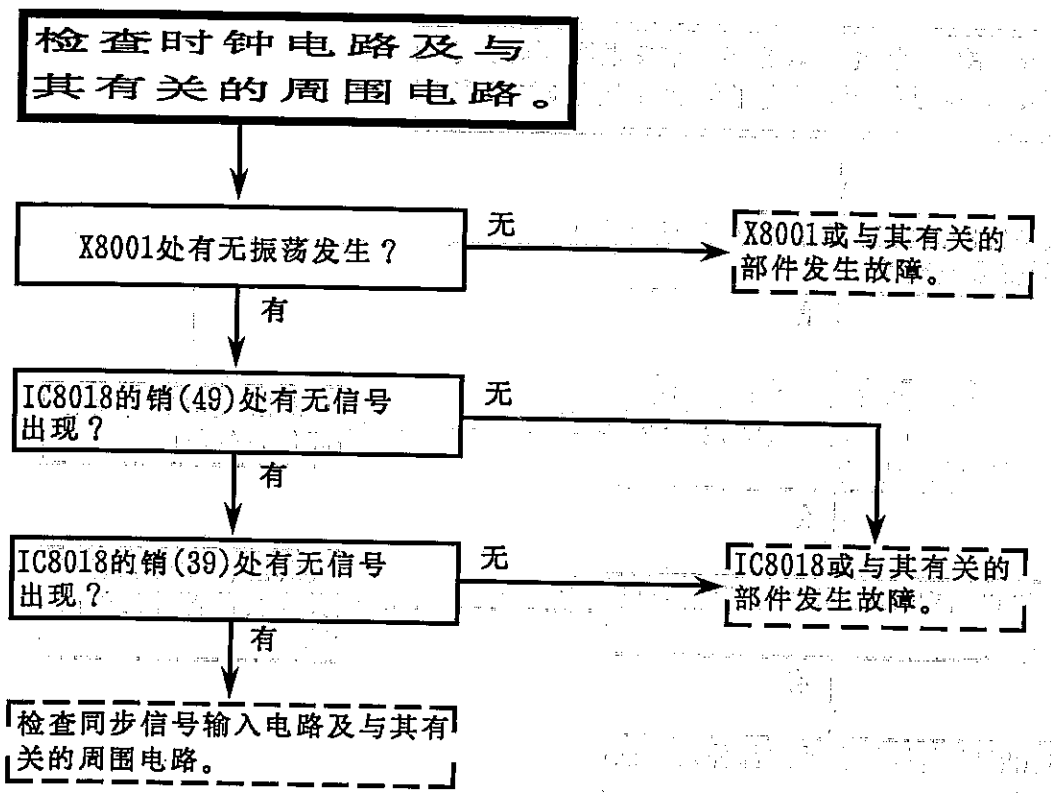
PC/IF装置的故障检修流程图（接上页）



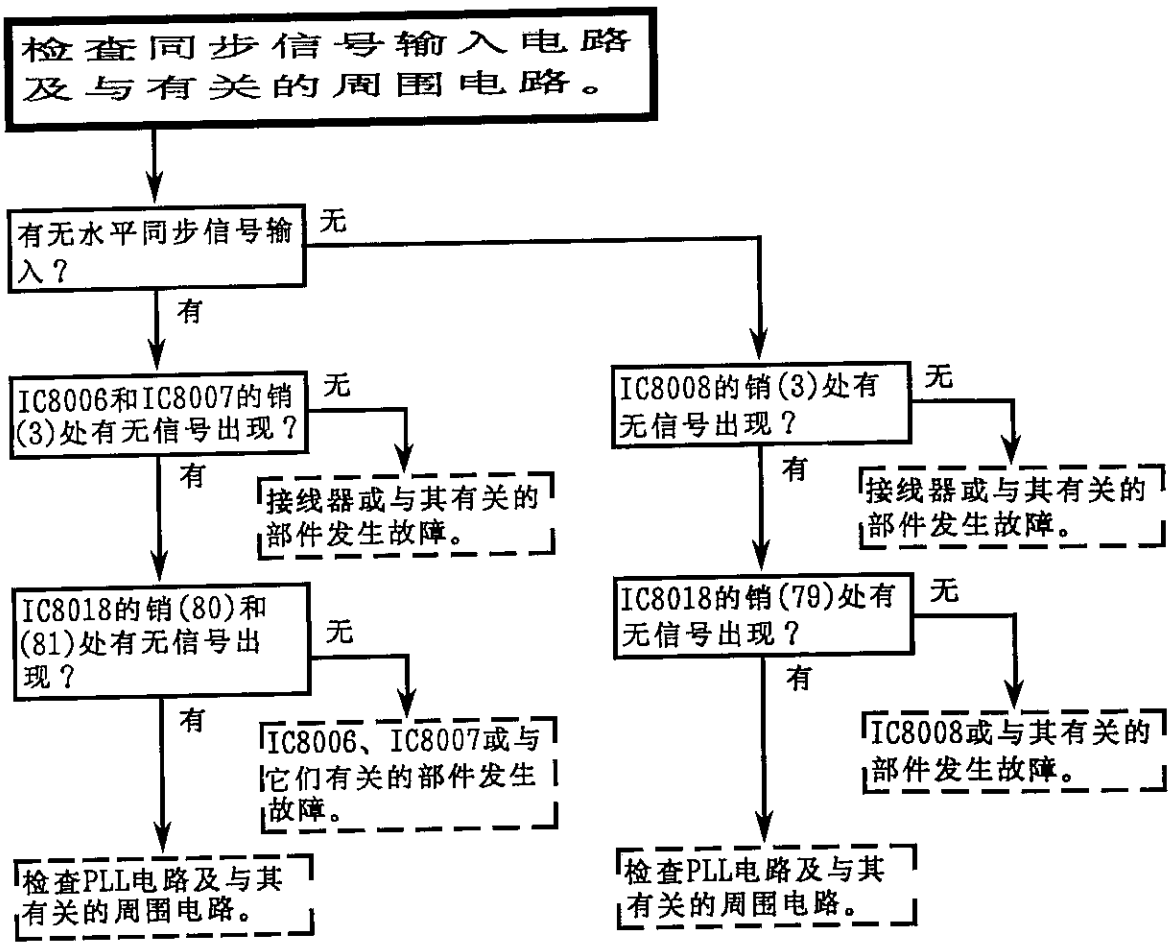


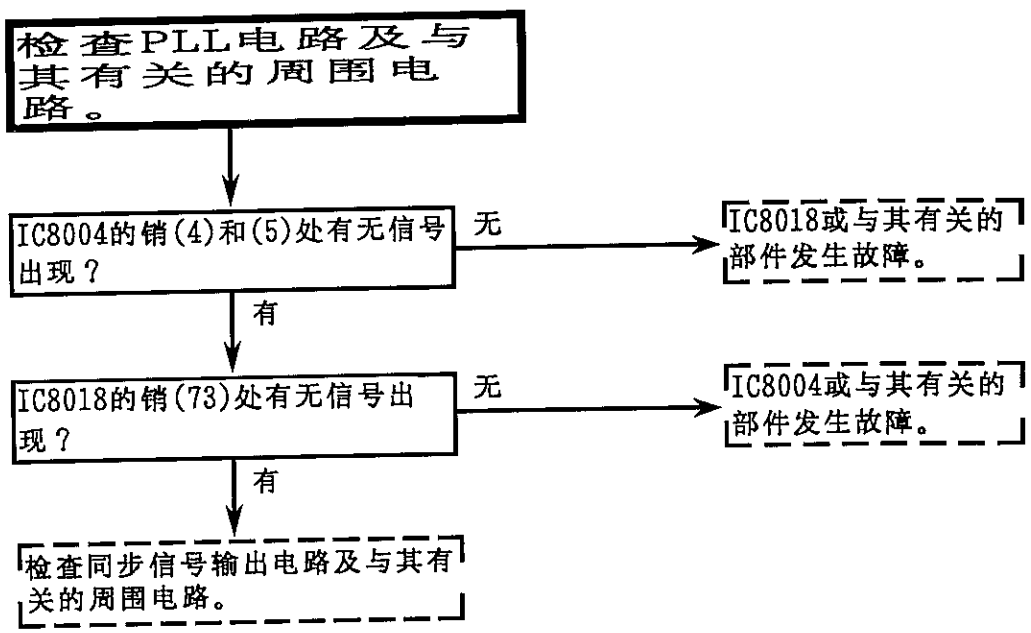
PC/IF装置的故障检修流程图（接上页）



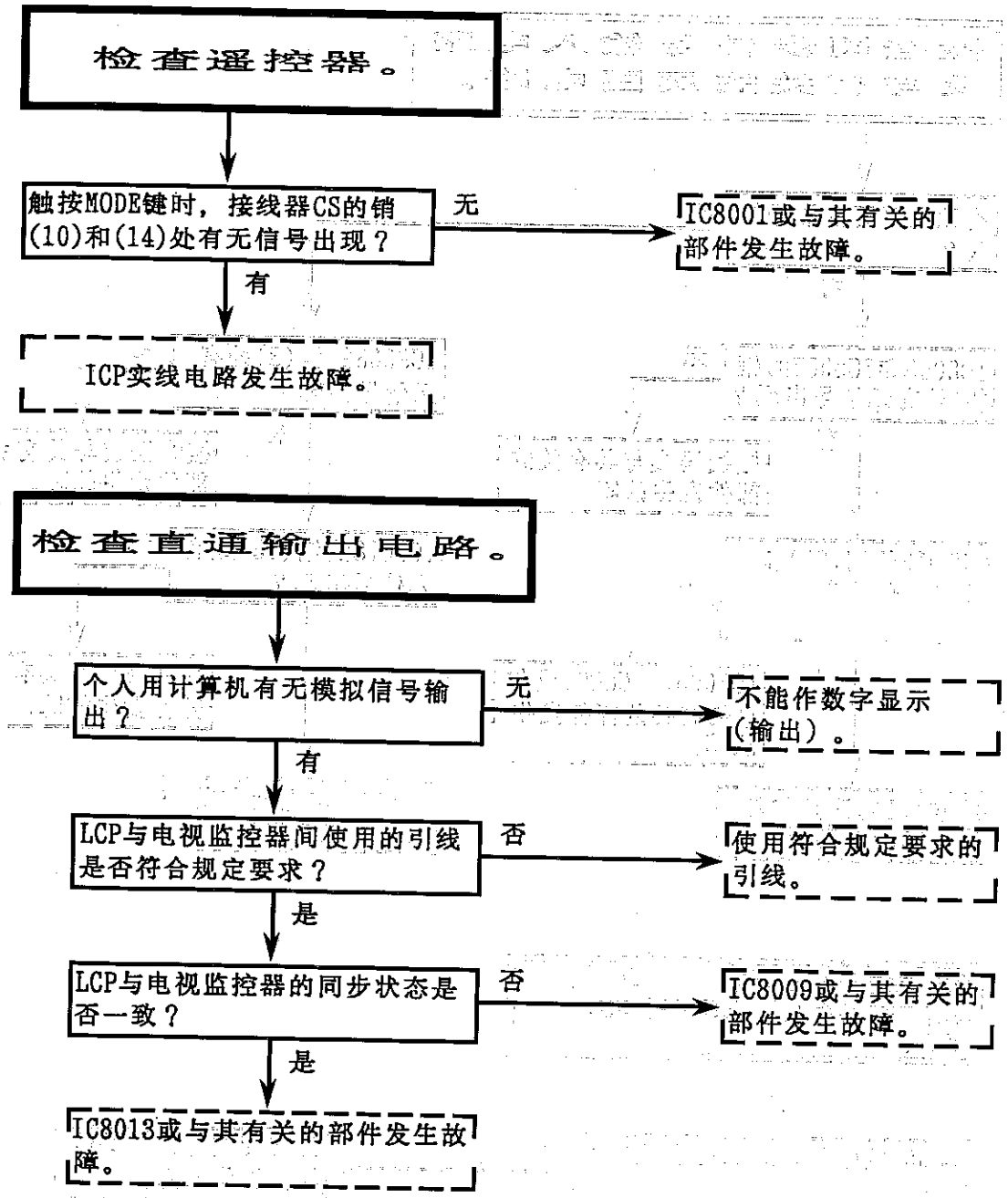


PC/IF装置的故障检修流程图（接上页）

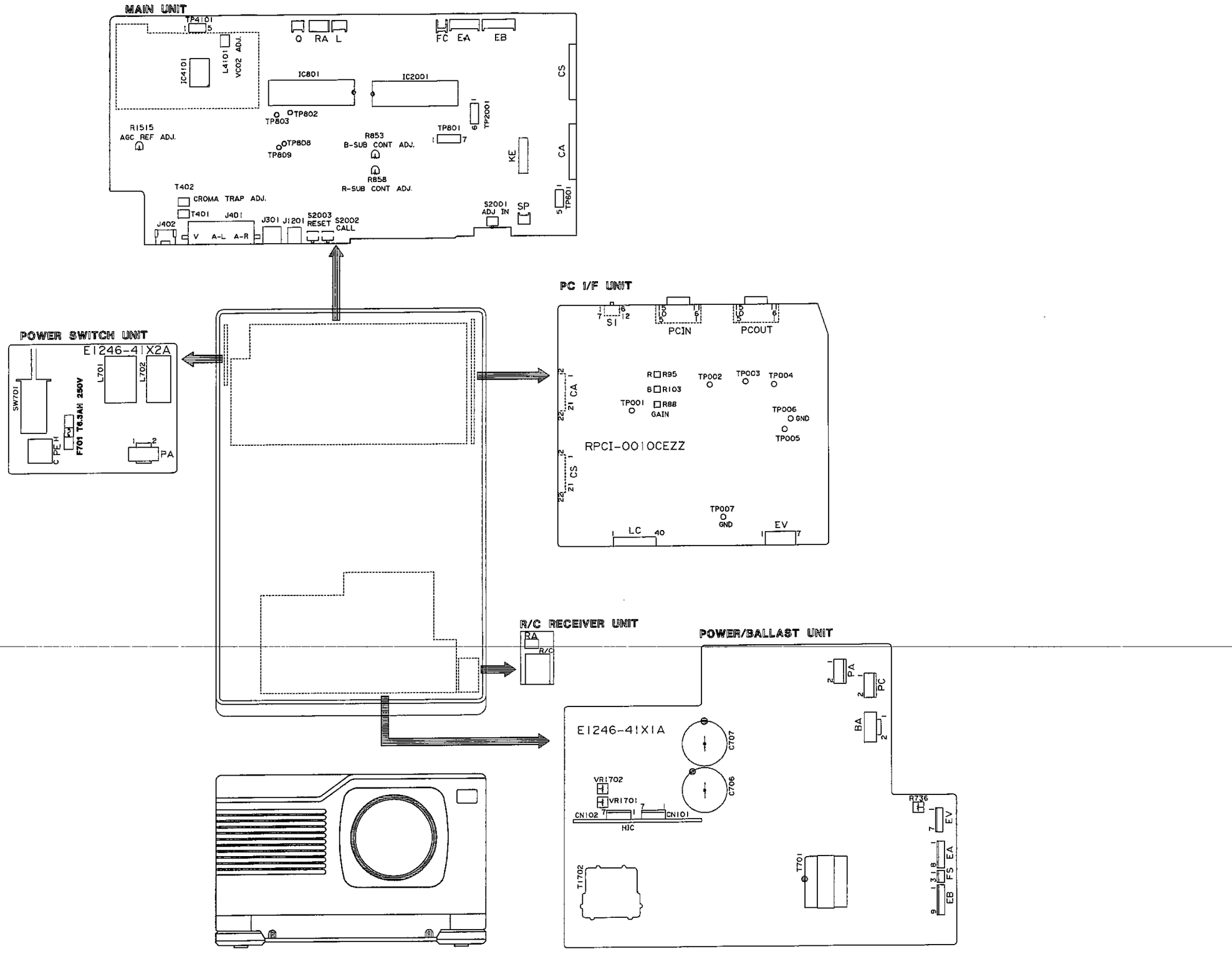




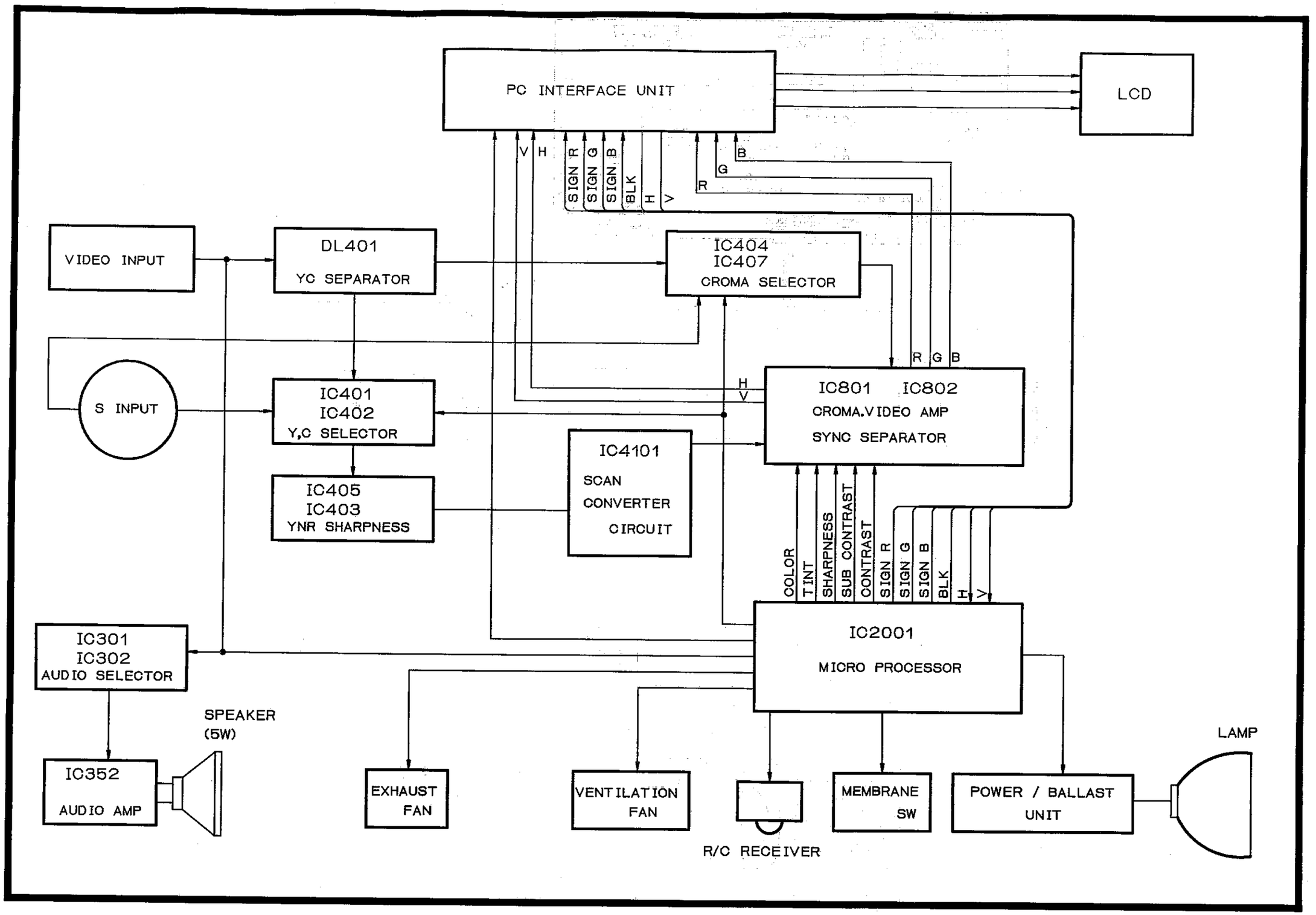
PC/IF装置的故障检修流程图（接上页）



CHASSIS LAYOUT/CHASSIS-LAYOUT/ 机芯底盘电路布置



BLOCK DIAGRAM/BLOCKDIAGRAMM 电路方框图



DESCRIPTION OF A SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J=± 5%, F=± 1%, D=± 0.5%)
3. All resistors are 1/10W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.

Ⓒ: Solid Ⓦ: Cement
Ⓢ: Oxide Film Ⓣ: Special
Ⓝ: Metal Coating

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.

(ML): Mylar (TA): Tantalum
(PF): Polypro Film (ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTE:
1. ***DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.***
2. ***SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.***

IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH "⚠" (▒▒▒) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

BESCHREIBUNG DES SCHEMATICHEN SCHALTPLANS

SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpukten bei einer Netzspannung von 120 V gemessen, Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 kΩ/V) ermittelt.

SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpukten werden bei einer Netzspannung von 120V verfolgt. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt.

BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

WIDERSTAND

1. Die Widerstandseinheit "Ω" wird weggelassen. (K=kΩ=1000Ω, M=MΩ)
2. Alle Widerstände haben ±5%, sofern nicht anders angegeben. (J=±5%, F=±1%, D=±0.5%)
3. Alle Widerstände haben 1/10W, sofen nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofen nicht anders angegeben.

Ⓒ: Fest Ⓦ: Zement
Ⓢ: Oxidfilm Ⓣ: Spezial
Ⓝ: Metallüberzug

KONDENSATOR

1. Alle Kapazitätseinheit ist μF, sofern nicht anders angegeben. (P=pF=μμF)
2. Alle Kondensatoren heben 50V, sofern nicht angegeben.
3. Alle Kondensatoren sind Keramiktyp, sofern nicht anders angegeben.

(ML): Mylar (TA): Tantal
(PF): Polyprofilm (ST): Styrol

ACHTUNG:
Bei diesem Schaltplan handlet es sich um den ursprünglichen. Esönnen daher geringfügige Unterschiede zu dem Ihren bestehen.

SICHERHEITSANMERKUNGEN:
1. ***VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZSTECKDOSE GEZOGEN WERDEN.***
2. ***DIE WARMEABLEITER DER HALBLEITER SOLLTEN BIEIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.***

WICHTIGE SICHERHEITSANMERKUNGEN:
MIT "⚠" (▒▒▒) BEZEICHNTEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRECHTERHALTUNG DER SICHERHEIT. BEIM WECHDIESER TTEILE SOLLTEN DIE VORGSCHTIBENEN TILE IMMER VERWENDENT WERDEN, UM SOWOOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRECHTZUERHALTEN.

电 路 原 理 图 的 说 明

电压测定条件：

1. 各测试点上的电压值是用AC120V电源电压来测定的。各种信号由维修专用的彩条信号发生器产生的，各种有关电压值是用20千欧姆/伏测试仪测定的。

波形测定条件：

1. 各测试点上的波形是用AC120V电源电压观察到的。各种信号由维修专用的彩条信号发生器产生的。

电阻与电容器的表示：

电阻

1. 电阻欧姆"Ω"单位予以略记。（K＝kΩ＝1000Ω，M＝兆Ω）。
2. 除特别说明者外，所有的电阻为±5%。（J＝±5%，F＝±1%，D＝±0.5%）。
3. 除特别说明者外，所有的电阻功率为1/10W。
4. 除特别说明者外，所有的电阻为碳质。

Ⓒ：固体电阻 Ⓦ：陶瓷电阻
Ⓢ：氧化膜电阻 Ⓣ：特殊电阻
Ⓝ：金属涂层电阻

电容器

1. 除特别说明者外，所有的电容器单位为微法（μF）。（P＝微微法＝μμF）。
2. 除特别说明者外，所有的电容器为50伏。
3. 除特别说明者外，所有的电容器为陶瓷质。

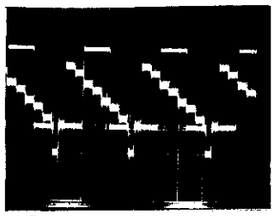
（ML）：聚酯薄膜电容器 （TA）：钽质电容器
（PF）：聚乙烯薄膜电容器 （ST）：聚苯乙烯电容器

注意：
这里的电路原理图均为最初设计原理图，与您的机器的电路原理图可能有不同之处。

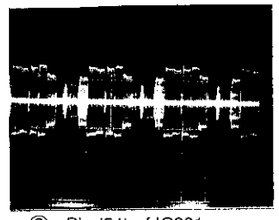
安全使用注意事项：
1. 在进行部件更换之前，务请拔出电源插头。
2. 本装置工作时，机芯底盘的半导体散热片有触电之虑，务请注意。

安全使用注意要点：
标有"⚠"（ ▒▒▒ ）的部件对于投影机安全的维护有至关重要的意义。为了维护本机的安全和使本机能正常工作，必须使用指定品来更换这些部件。

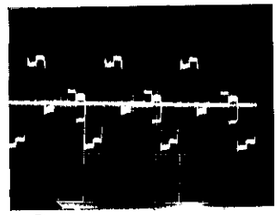
WAVEFORMS/WELLENFORMEN/波形图



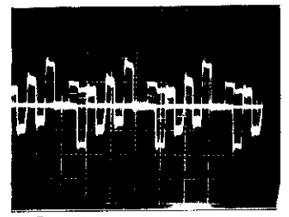
① Pin (1) of TP801
H: 20μsec/div
V: 200mV/div



② Pin (51) of IC801
H: 20μsec/div
V: 200mV/div

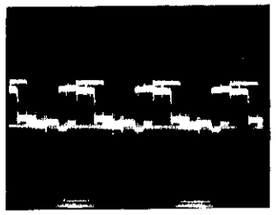


③ TP803
H: 20μsec/div
V: 200mV/div



④ TP802
H: 20μsec/div
V: 200mV/div

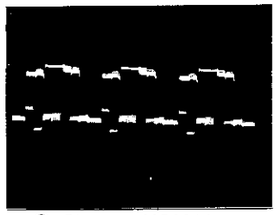
⑤ Pin (5) of TP801
H: 20μsec/div
V: 500mV/div
R Signal



⑥ Pin (6) of TP801
H: 20μsec/div
V: 500mV/div
G Signal

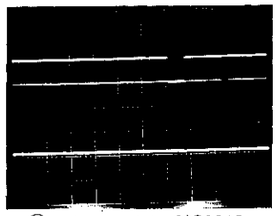
⑦ Pin (7) of TP801
H: 20μsec/div
V: 500mV/div
B Signal

⑧ Pin (8) of Connector CA
H: 5msec/div
V: 2V/div
V-sync.

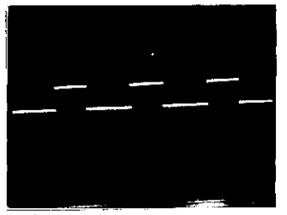


⑨ Pin (25) of IC8014
H: 20μsec/div
V: 1V/div

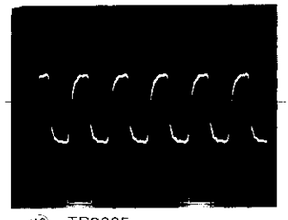
⑩ Pin (7) of Connector CA
H: 20μsec/div
V: 2V/div
H-sync



⑪ Pin (1), (12) of IC8019
H: 2msec/div
V: 5V/div

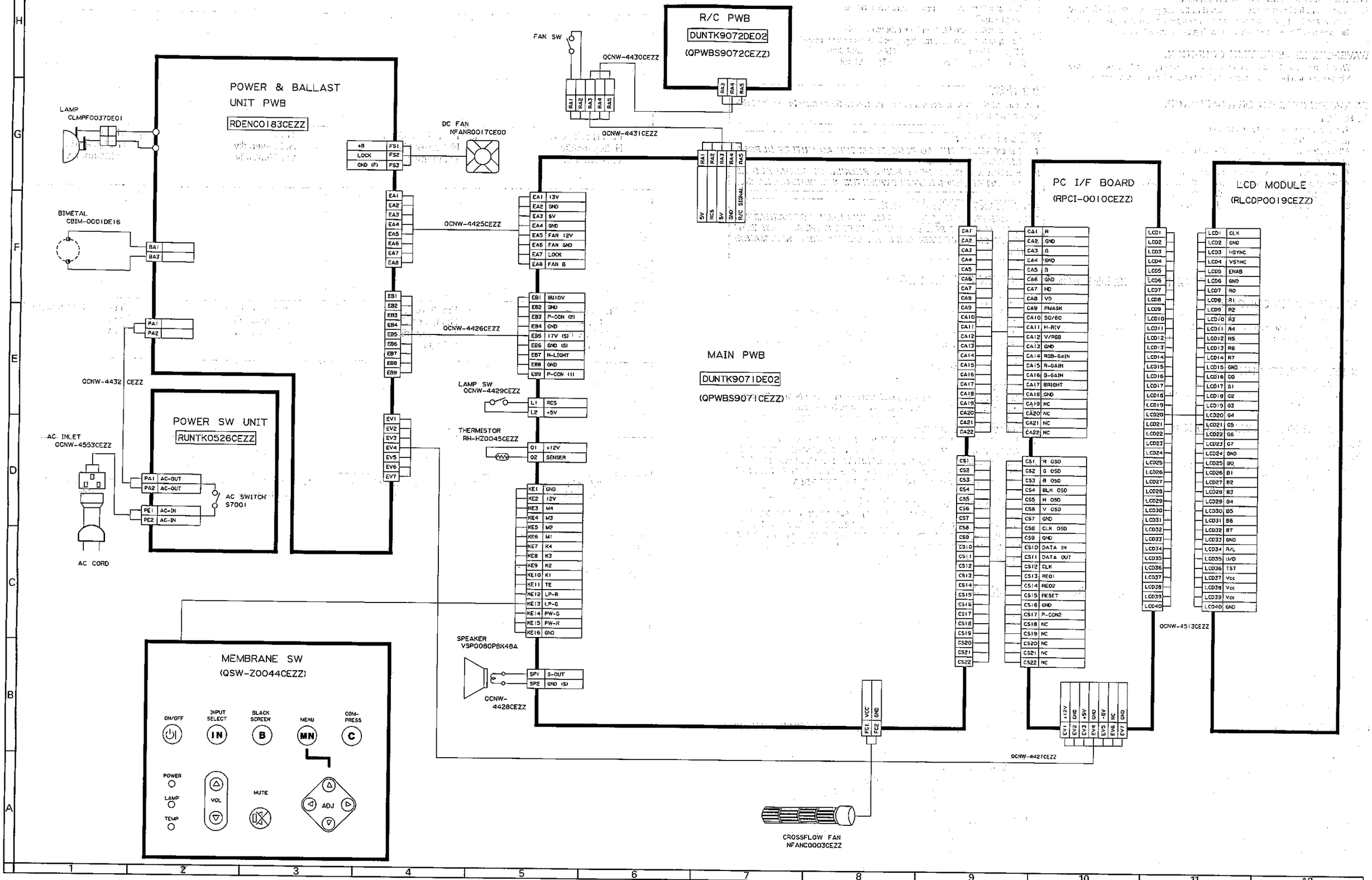


⑫ Pin (16) of IC8019
H: 20μsec/div
V: 5V/div

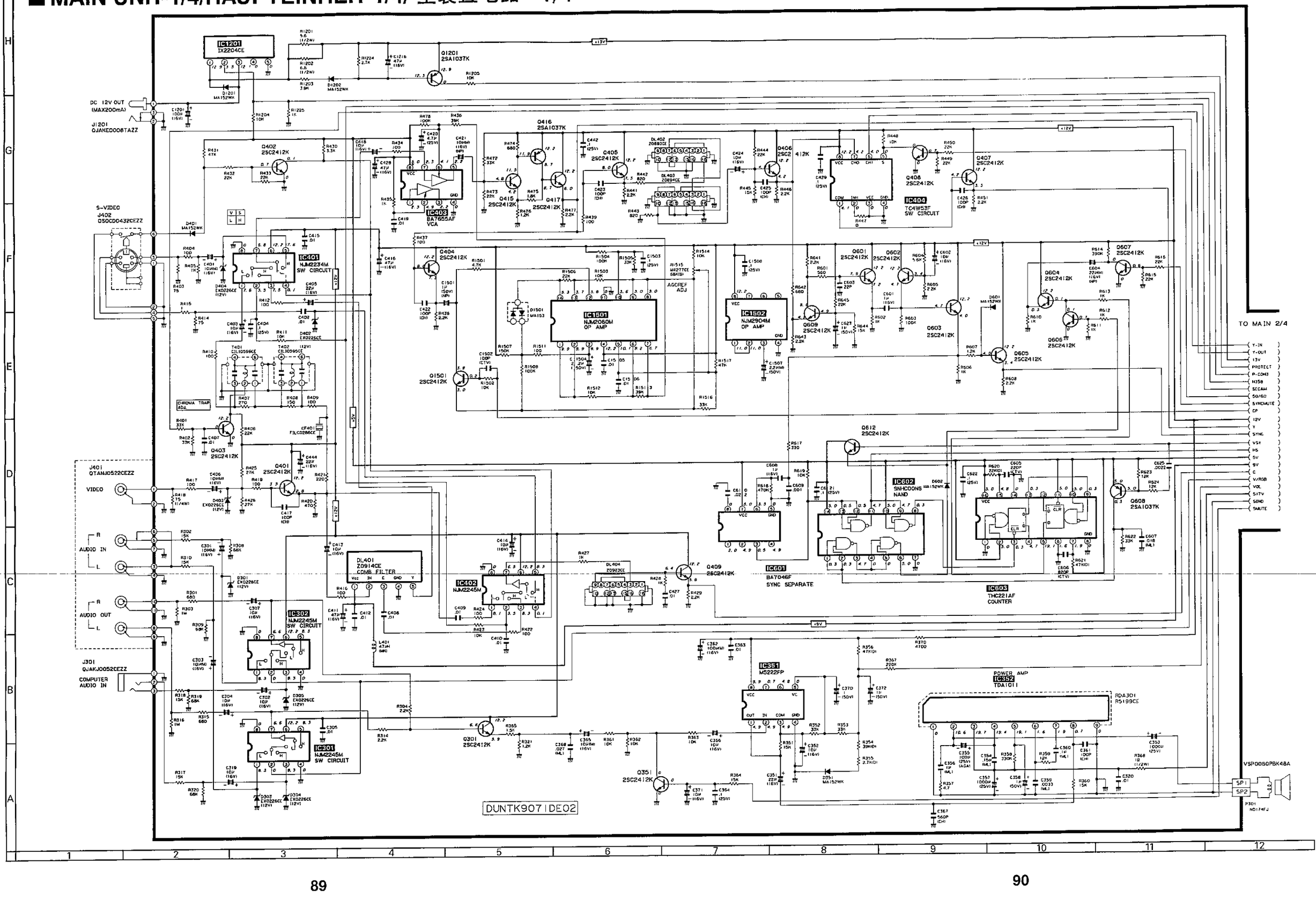


⑬ TP8005
H: 50msec/div
V: 1V/div

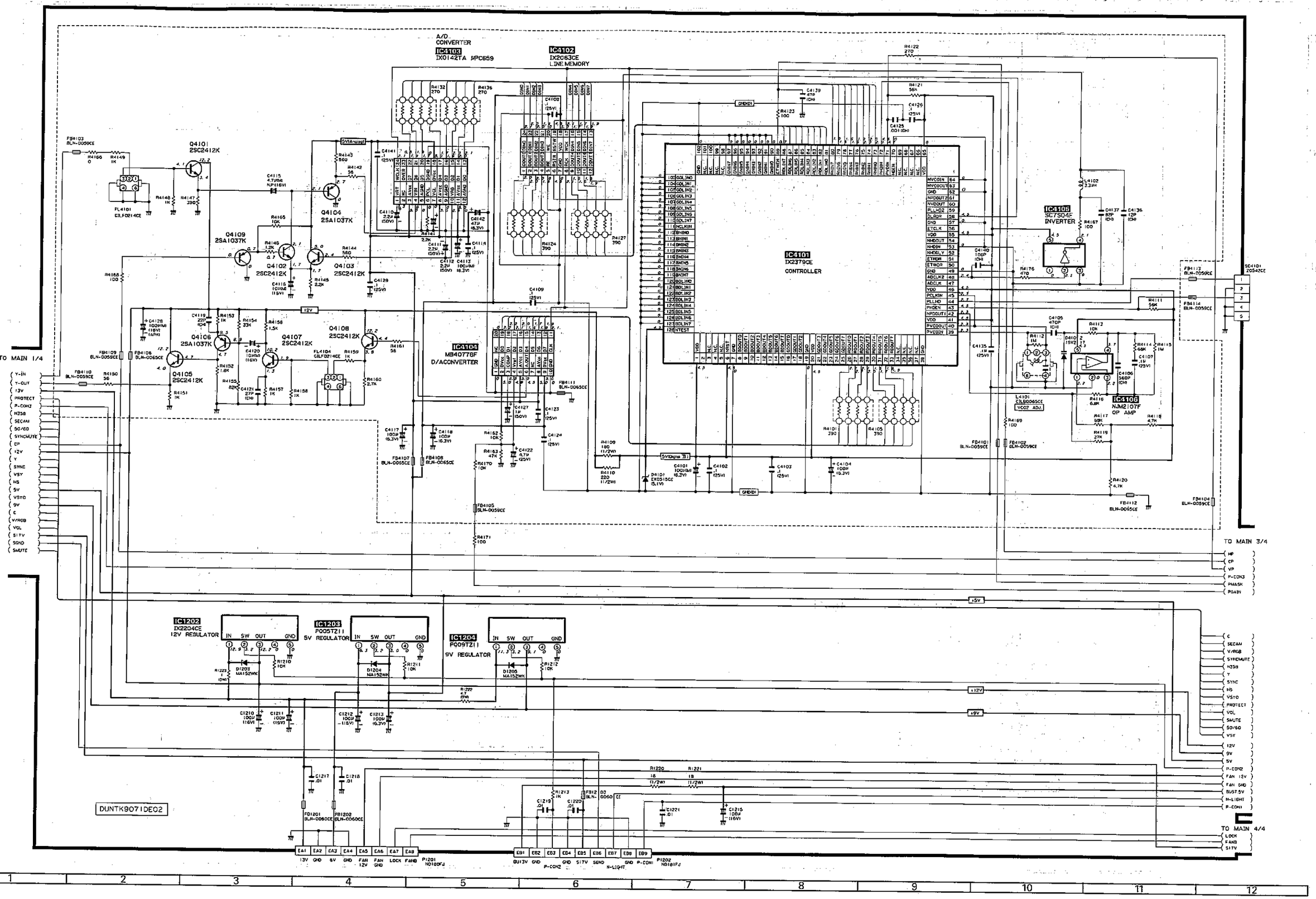
OVERALL WIRING DIAGRAM/GESAMTSCHALTPLAN/ 整体印刷电路图



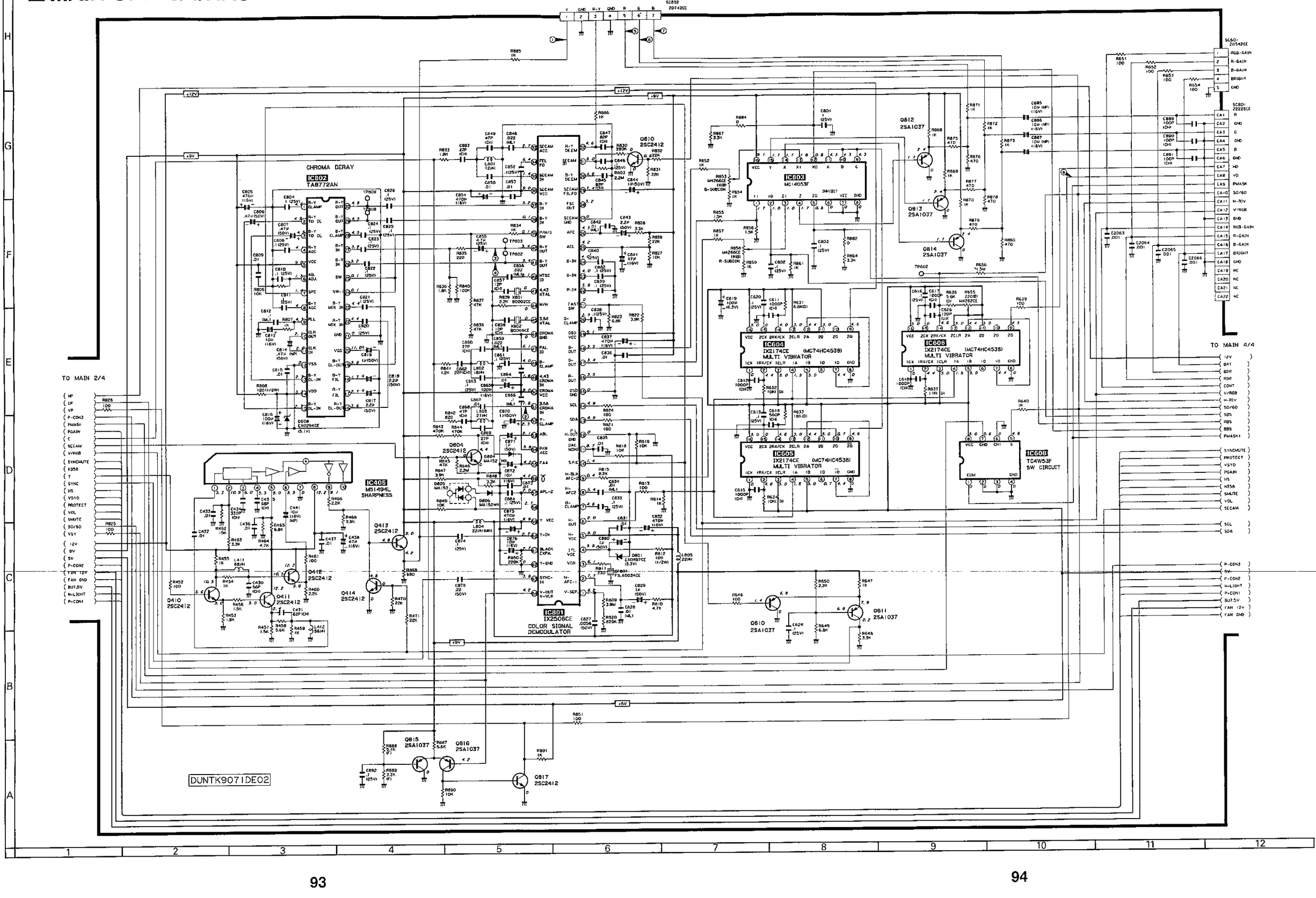
■ MAIN UNIT-1/4/HAUPTEINHEIT-1/4/ 主装置电路－1/4



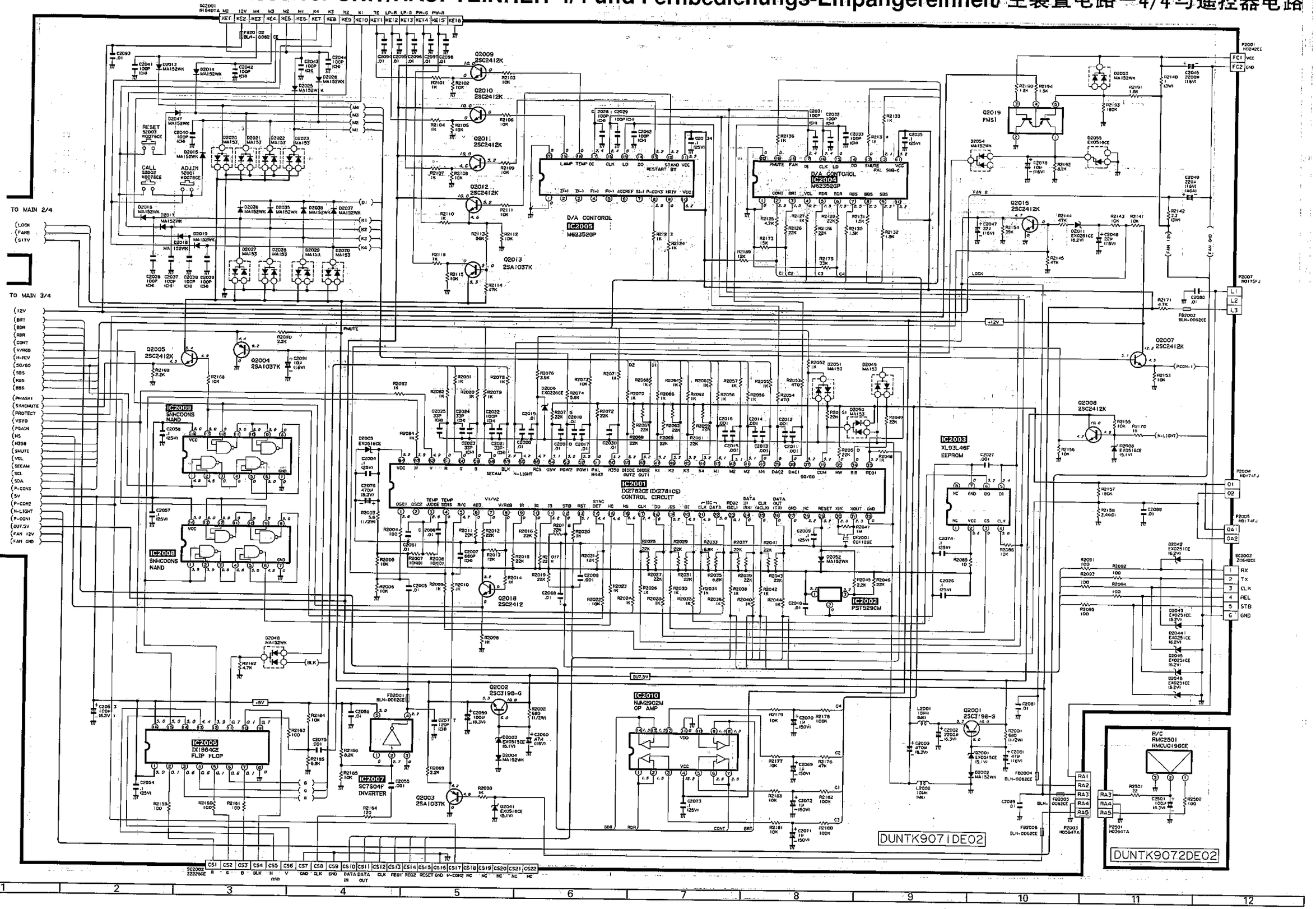
■ MAIN UNIT-2/4/HAUPTEINHEIT-2/4/ 主装置电路－2/4



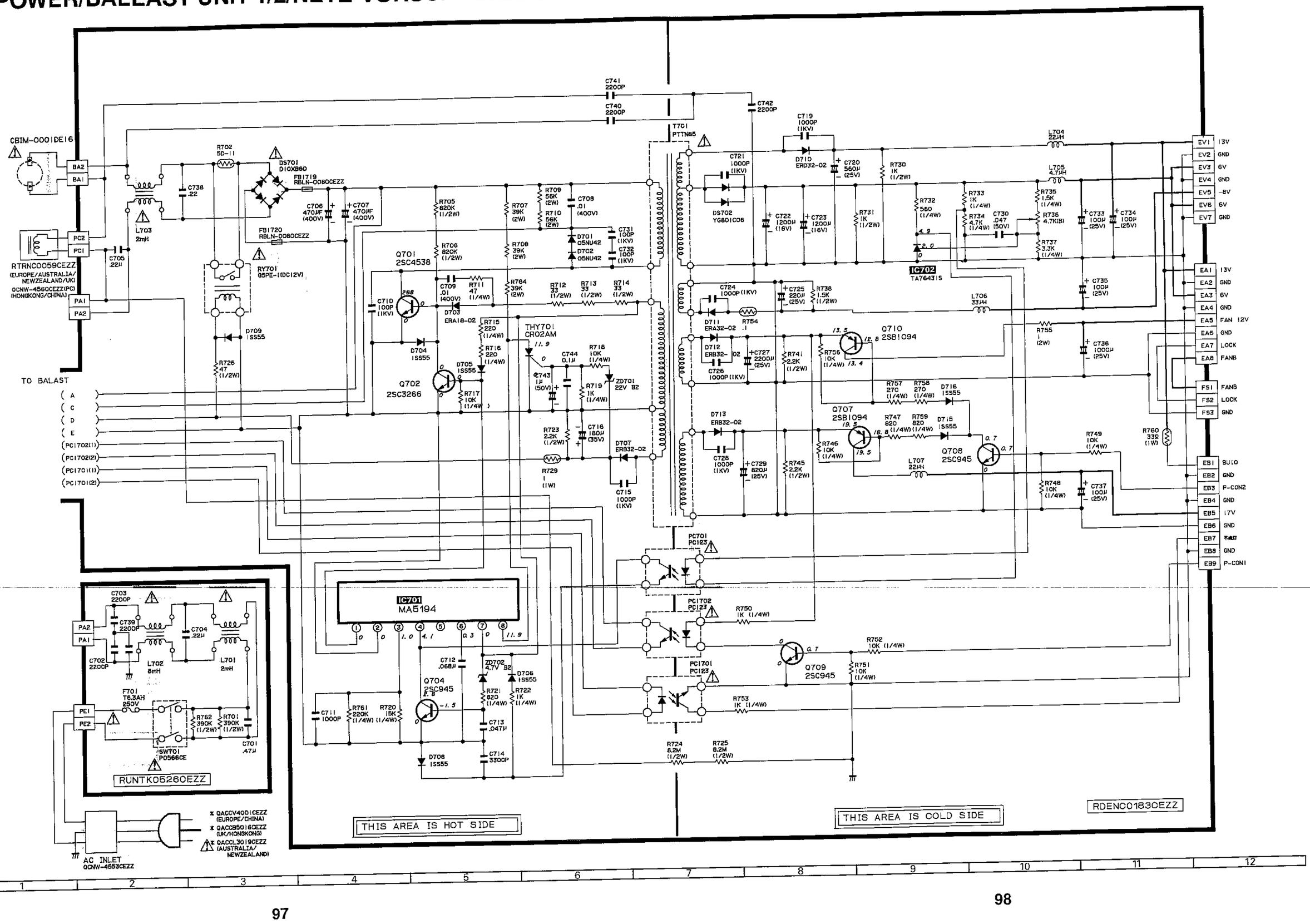
■ MAIN UNIT-3/4/HAUPTEINHEIT-3/4/ 主装置电路－3/4



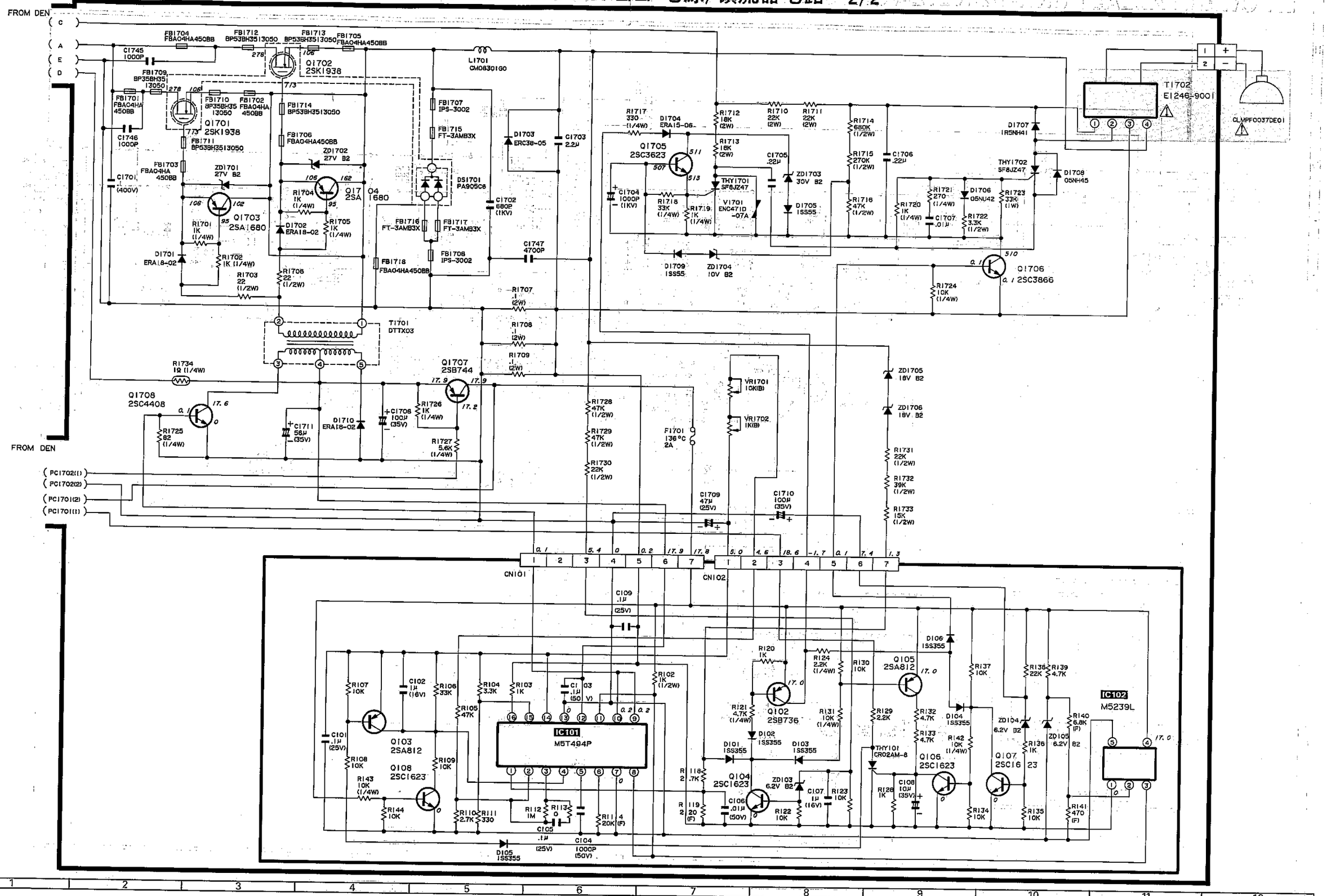
■ MAIN UNIT-4/4 and R/C Receiver UNIT/HAUPTEINHEIT-4/4 und Fernbedienungs-Empängereinheit/ 主装置电路—4/4与遥控器电路



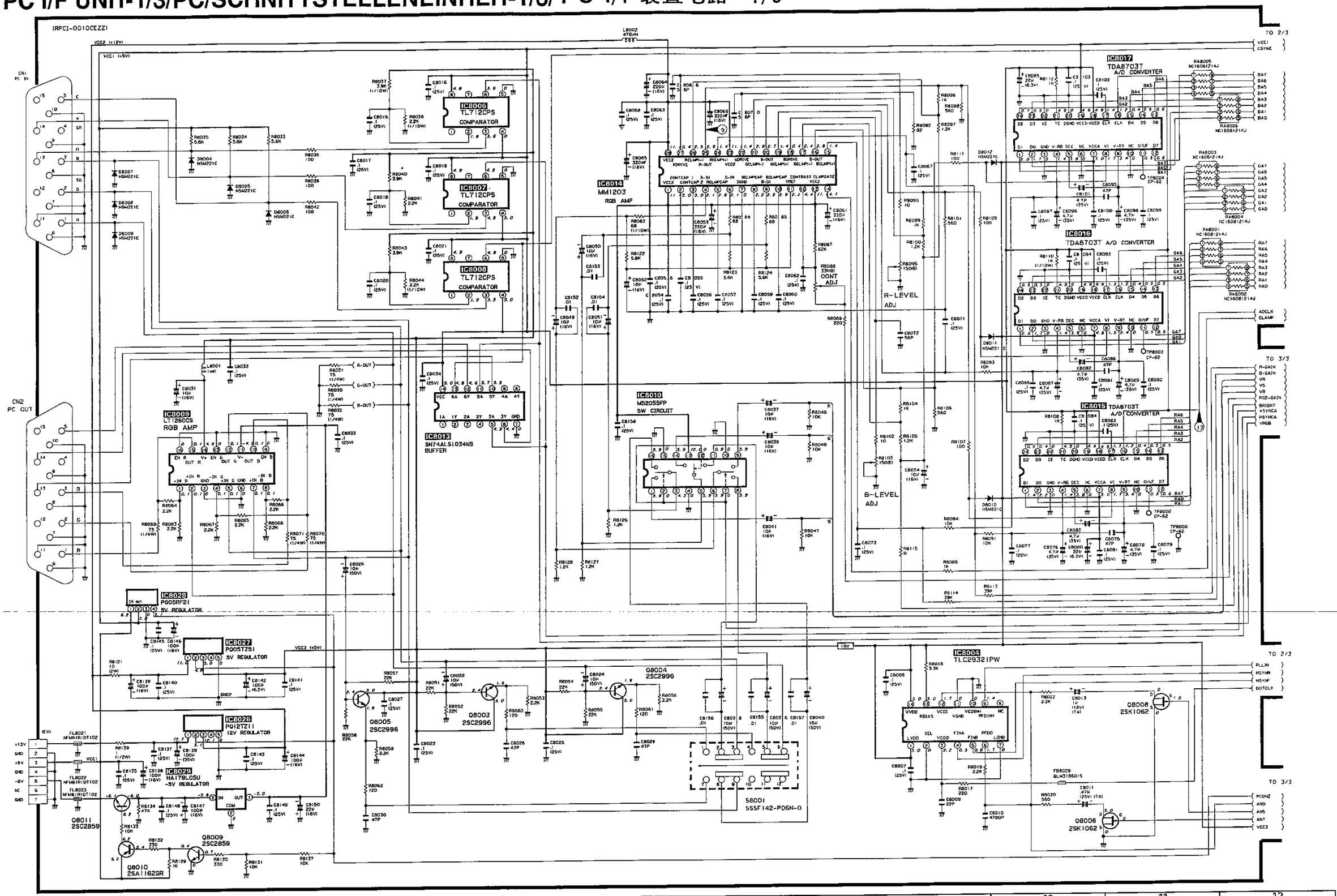
■ POWER/BALLAST UNIT-1/2/NETZ-VORSCHALTEINHEIT-1/2/ 电源/镇流器电路－1/2



■ POWER/BALLAST UNIT-2/2/NETZ-VORSCHALTEINHEIT-2/2/ 电源/镇流器电路－2/2

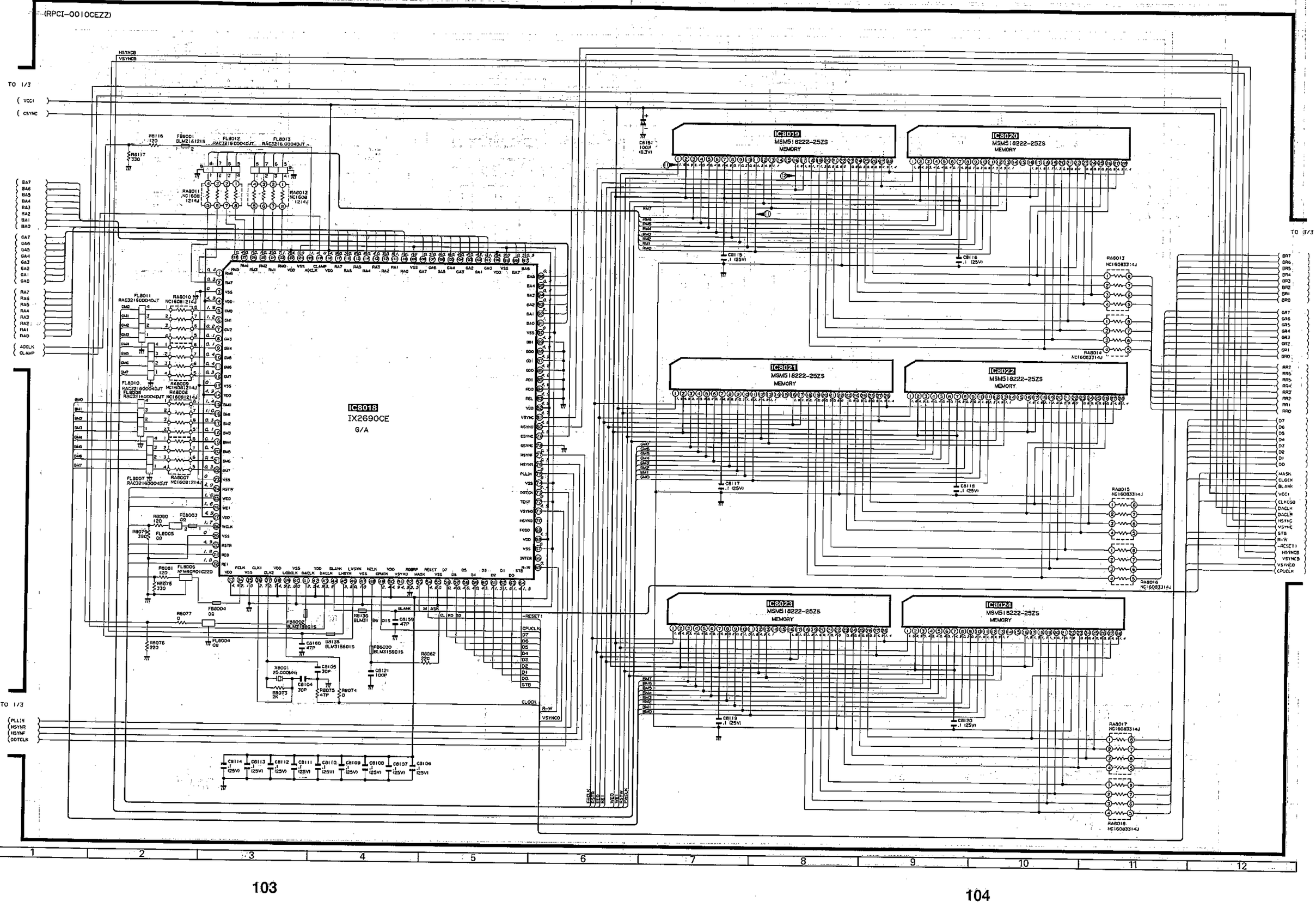


■ PC I/F UNIT-1/3/PC/SCHNITTSTELLENEINHEIT-1/3/ PC I/F装置电路－1/3

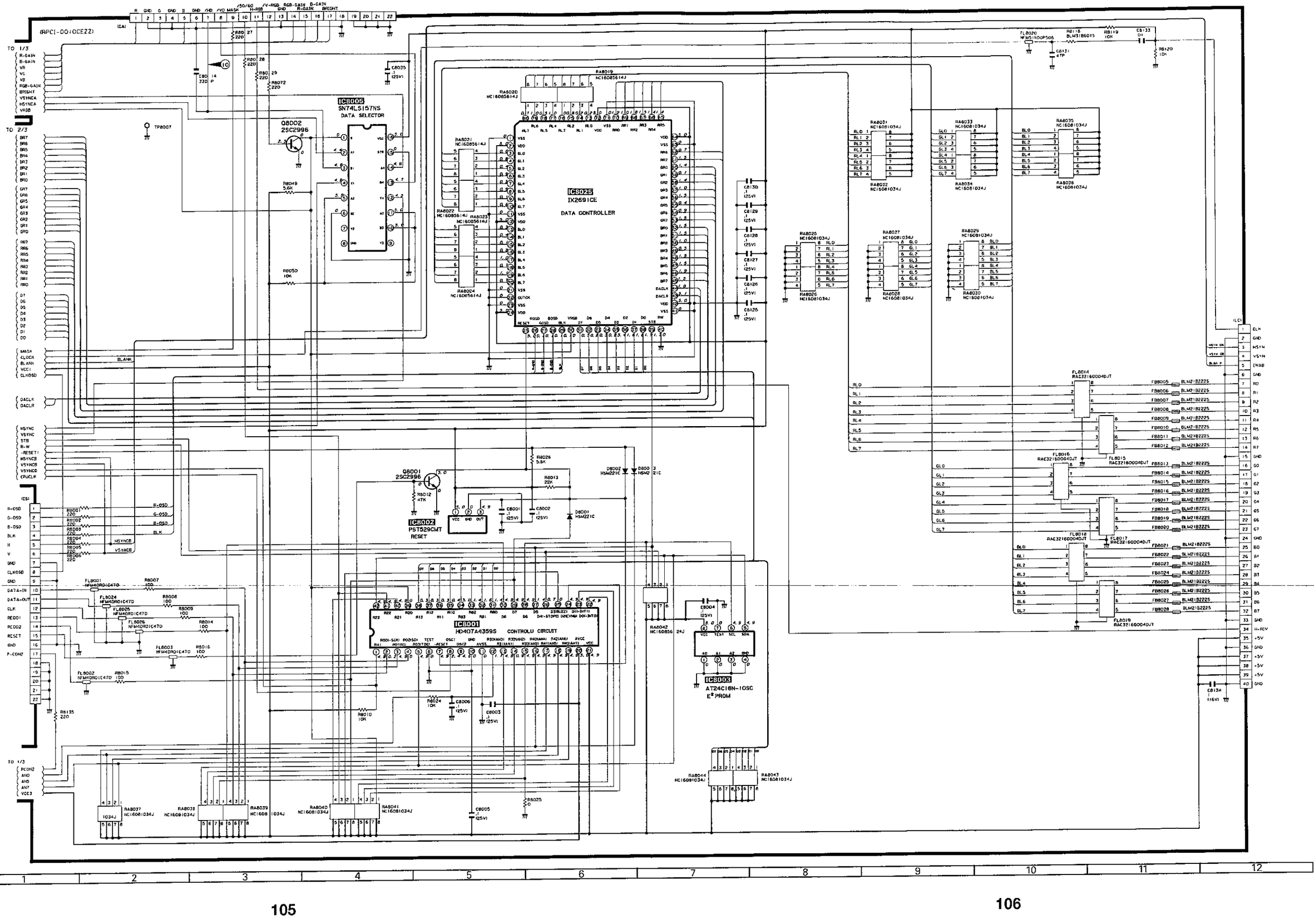


101 102

■PC I/F UNIT-2/3/PC/SCHNITTSTELLENEINHEIT-2/3/ PC I/F装置电路－2/3



■ PC I/F UNIT-3/3/PC/SCHNITTSTELLENEINHEIT-3/3/ PC I/F装置电路—3/3



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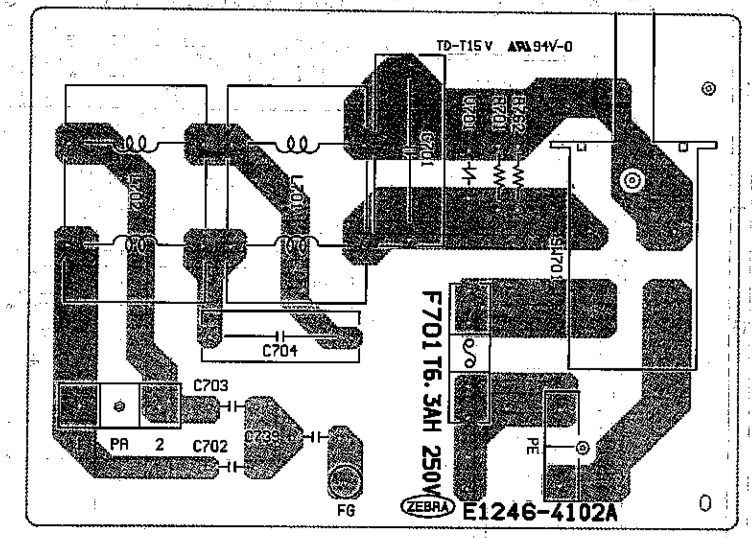
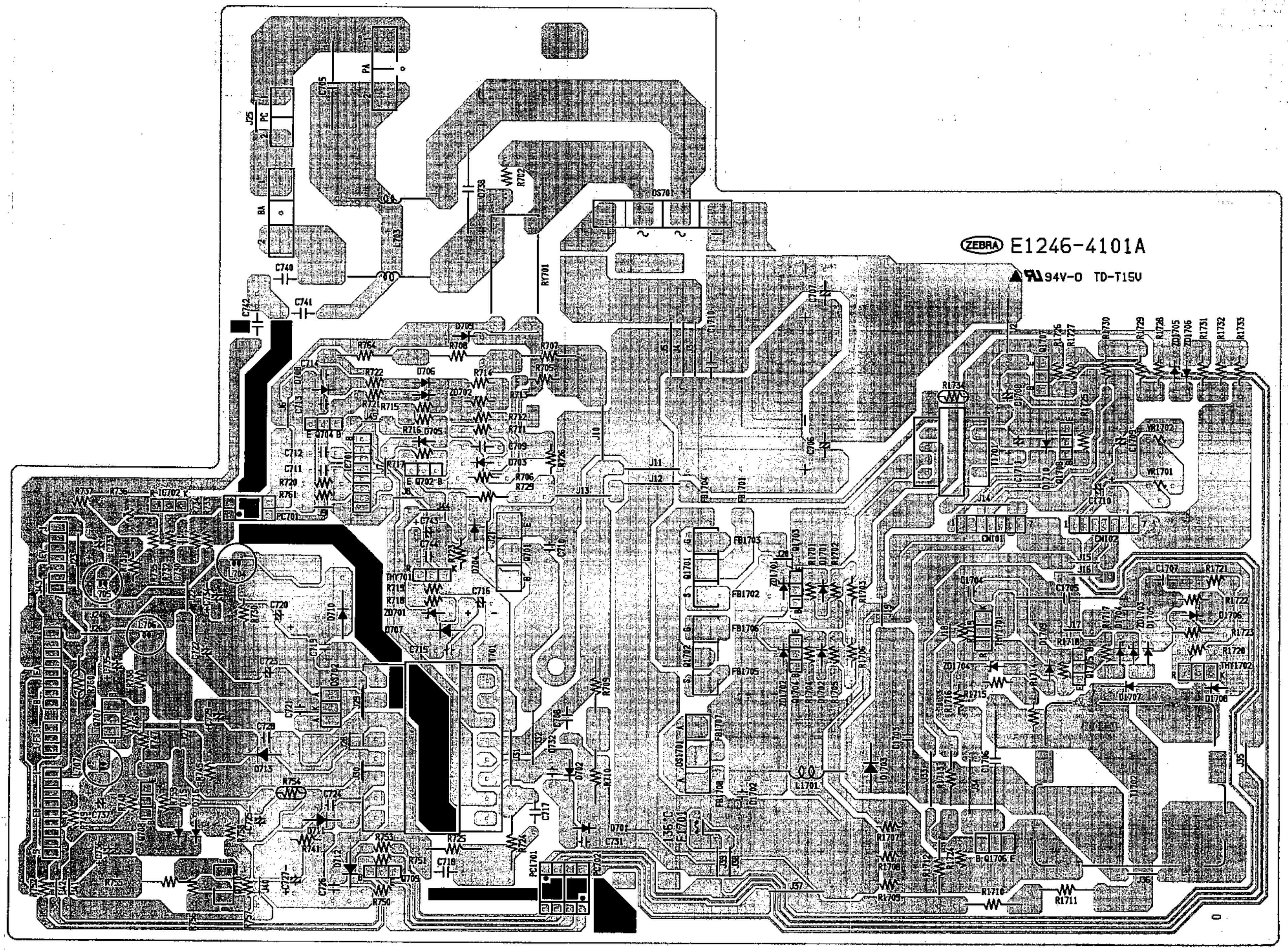
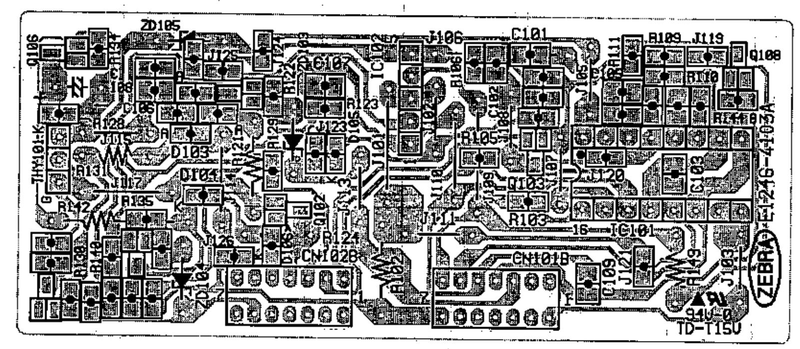
PRINTED WIRING BOARD ASSEMBLIES/LEITERPLATTENEINHEITEN/ 印刷电路板组件



Power Switch unit (Wiring Side)
Netzschaltereinheit (Verdrahtugsseite)
电源开关装置印刷电路板(线路贴置侧)

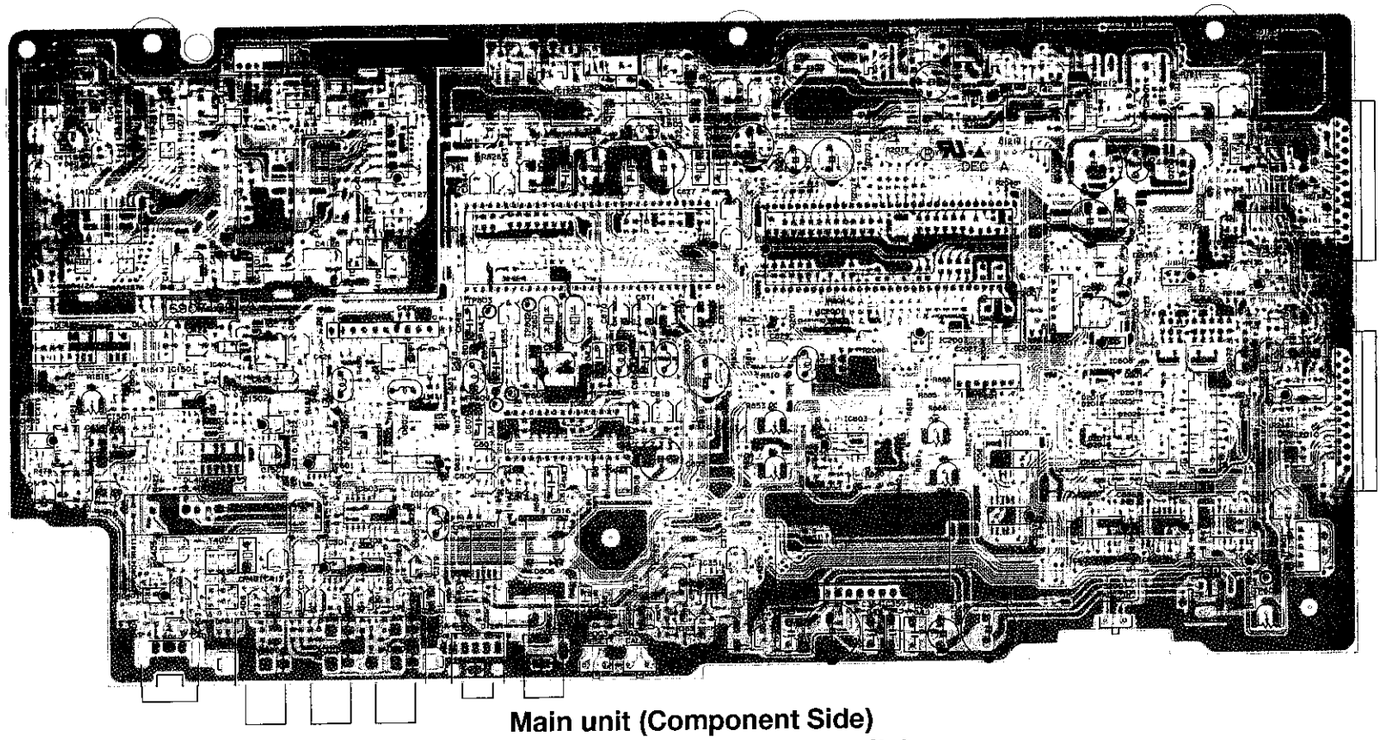


Power/Ballast unit (Wiring Side)
Netz-/Vorschalteinheit (Verdrahtugsseite)
电源/镇流器印刷电路板(线路贴置侧)



Sub Power/Ballast unit (Wiring Side)
Hilfs-Netz-/Vorschalteinheit (Verdrahtugsseite)
辅助电源/镇流器印刷电路板(线路贴置侧)

1	2	3	4	5	6	7	8	9	10	11	12

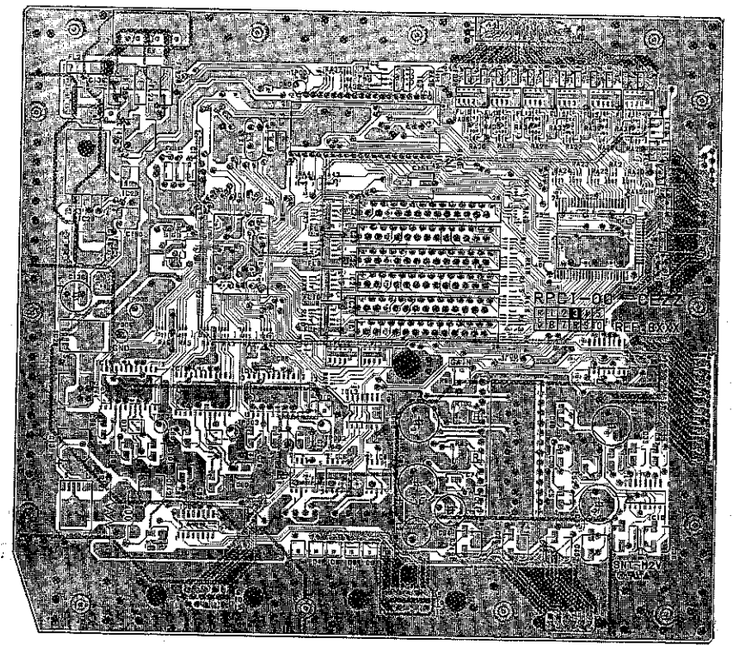


Main unit (Component Side)
Haupteinheit (Komponentenseite)
主装置印刷电路板(部件装备側)

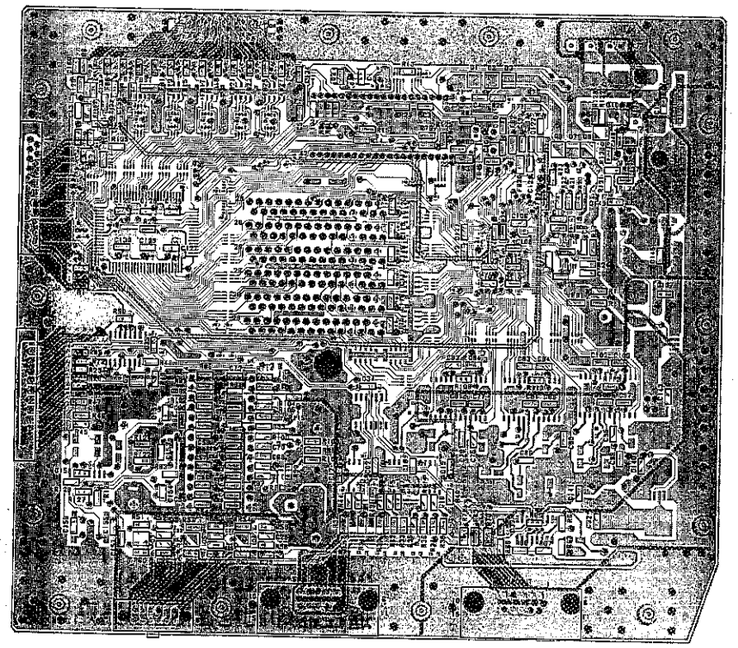
Main unit (Wiring Side)
Haupteinheit (Verdrahtungsseite)
主装置印刷电路板(线路贴置側)

R/C Receiver unit (Component Side)
Fernbedienungs-Empfängereinheit
(Komponenten seite)
遥控器印刷电路板(部件装备側)

R/C Receiver unit (Wiring Side)
Fernbedienungs-Empfängereinheit
(Verdrahtungsseite)
遥控器印刷电路板(线路贴置側)



PC I/F unit (Component Side)
PC/Schittstelleneinheit (Komponentenseite)
PC I/F装置印刷电路板(部件装备侧)



PC I/F unit (Wiring Side)
PC/Schittstelleneinheit (Verdrahtungsseite)
PC I/F装置印刷电路板(线路贴置侧)

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" in the Replacement Parts Lists.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

MARK ★: SPARE PARTS-DELIVERY SECTION

ERSATZTEILLISTE

AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenshaften sind in den Ersatzteil durch "⚠" gekenn-zeichnet.
Der Gebrauch von Ersatzteilen, die nicht deselben Sicherheits-eigenschaften haben wie die vom Hersteller empfohlenen ud in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

"WIE MAN ERSATSTEILE BESTELLT"

Damit Ihre Bestellung promt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

1. MODELL NR.
2. REF. NR.
3. ERSATZTEIL NR.
4. BESCHREIBUNG
5. KODE
6. QUANTITÄT

MARKIERUNG ★: ERSATZTEILE-LIEFERUNG

更换零件表

更换零件

本维修说明书对具有特别安全要求的零件均用标记加以识别:在此更换零件表中，具有特别安全要求的电路元件均用⚠标记以便注意识别。更换零件时，为了用户的安全以及电视机原有的工作性能，务请使用夏普规定零件。否则，可能有导致触电、火灾或其他不测事故发生的可能。

更换零件的订货方法

为了能迅速而确实地接受订货、以及正确无误地按时交货，在订货时请将下列各项明确告知。

1. 型号
2. 参考编号
3. 零件编号
4. 零件名称
5. 代号
6. 数量

附★记号为备用部件的交货部门

Ref. No.	Part No.	★	Description	Code

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

	DUNTK9071DE02		– Main Unit	—
	DUNTK9072DE02		– R/C Receiver Unit	—
	RUNTK0526CEZZ		– Power Switch Unit	—
	RDENC0183CEZZ		– Power/Ballast Unit	—
	RPCi-0010CEZZ		– PC I/F Unit	—

ASSEMBLY UNIT

	DLCPP0043DE01	J	LCD Module Unit Ass'y	DV

DUNTK9071DE02
MAIN UNIT

INTEGRATED CIRCUITS

IC301	VHiNJM2245M-1	J	NJM2245M	AF
IC302	VHiNJM2245M-1	J	NJM2245M	AF
IC351	VHiM5222FP/-1	J	M5222FP	AG
IC352	VHiTDA1011/-1	J	TDA1011	AK
IC401	VHiNJM2234M-1	J	NJM2234M	AF
IC402	VHiNJM2245M-1	J	NJM2245M	AF
IC403	VHiBA7655AF-1	J	BA7655AF	AG
IC404	VHiTC4W53F/-1	J	TC4W53F	AE
IC405	VHiM51494L/-1	J	M51494L	AK
IC601	VHiBA7046F/-1	J	BA7046F	AF
IC602	VHiSNHC00NS-1	J	SN74HC00NS	AC
IC603	VHiTHC221AF-1	J	TC74HC221AF	AG
IC604	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC605	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC606	RH-iX2174CEZZ	J	MC74HC4538FR	AG
IC608	VHiTC4W53F/-1	J	TC4W53F	AE

DUNTK9071DE02
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
IC801	RH-iX2508CEN3	J	TA8880CN	BA
IC802	VHiTA8772AN-1	J	TA8772AN	AV
IC803	VHiMC14053F-1	J	MC14053BFR1	AD
IC1201	RH-iX2204CEZZ	J	PQ12TZ11	AG
IC1202	RH-iX2204CEZZ	J	PQ12TZ11	AG
IC1203	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC1204	VHiPQ09TZ11-1	J	PQ09TZ11	AH
IC1501	VHiNJM2060M-1	J	NJM2060M	AE
IC1502	VHiNJM2904M-1	J	NJM2904M	AE
IC2001	RH-iX2782CEZZ	J	M37204MC-D76SP	AZ
IC2002	VHiPST529CM-1	J	PST529CMT	AE
IC2003	VHiXL93L46F-1	J	XLJ93LC46F	AG
IC2004	VHiM62352GP-1	J	M62352GP	AQ
IC2005	VHiM62352GP-1	J	M62352GP	AQ
IC2006	RH-iX1864CEZZ	J	SN74LS174NS	AD
IC2007	VHiSC7S04F/-1	J	SC7S04F	AC
IC2008	VHiSNHC00NS-1	J	SN74HC00NS	AC
IC2009	VHiSNHC00NS-1	J	SN74HC00NS	AC
IC2010	VHiNJM2902M-1	J	NJM2902M	AF
IC4101	RH-iX2379CEZZ	J	iX2379CE	AY
IC4102	RH-iX2063CEZZ	J	UPD42102G-3	AV
IC4103	RH-iX0142TAZZ	J	UPC659G	AU
IC4104	VHiMB40778F-1	J	MB40778PF	AN
IC4105	VHiSC7S04F/-1	J	SC7S04F	AC
IC4106	VHiNJM2107F-1	J	NJM2107F	AE

TRANSISTORS

Q301	VS2SC2412KQ-1	J	2SC2412K	AA
Q351	VS2SC2412KQ-1	J	2SC2412K	AA
Q401	VS2SC2412KQ-1	J	2SC2412K	AA
Q402	VS2SC2412KQ-1	J	2SC2412K	AA
Q403	VS2SC2412KQ-1	J	2SC2412K	AA
Q404	VS2SC2412KQ-1	J	2SC2412K	AA
Q405	VS2SC2412KQ-1	J	2SC2412K	AA
Q406	VS2SC2412KQ-1	J	2SC2412K	AA
Q407	VS2SC2412KQ-1	J	2SC2412K	AA
Q408	VS2SC2412KQ-1	J	2SC2412K	AA
Q409	VS2SC2412KQ-1	J	2SC2412K	AA
Q410	VS2SC2412KQ-1	J	2SC2412K	AA
Q411	VS2SC2412KQ-1	J	2SC2412K	AA
Q412	VS2SC2412KQ-1	J	2SC2412K	AA
Q413	VS2SC2412KQ-1	J	2SC2412K	AA
Q414	VS2SC2412KQ-1	J	2SC2412K	AA
Q415	VS2SC2412KQ-1	J	2SC2412K	AA
Q416	VS2SA1037KQ-1	J	2SA1037K	AA
Q417	VS2SC2412KQ-1	J	2SC2412K	AA
Q601	VS2SC2412KQ-1	J	2SC2412K	AA
Q602	VS2SC2412KQ-1	J	2SC2412K	AA
Q603	VS2SC2412KQ-1	J	2SC2412K	AA
Q604	VS2SC2412KQ-1	J	2SC2412K	AA
Q605	VS2SC2412KQ-1	J	2SC2412K	AA
Q606	VS2SC2412KQ-1	J	2SC2412K	AA
Q607	VS2SC2412KQ-1	J	2SC2412K	AA
Q608	VS2SA1037KQ-1	J	2SA1037K	AA
Q609	VS2SC2412KQ-1	J	2SC2412K	AA
Q610	VS2SA1037KQ-1	J	2SA1037K	AA
Q611	VS2SA1037KQ-1	J	2SA1037K	AA
Q612	VS2SC2412KQ-1	J	2SC2412K	AA
Q804	VS2SC2412KQ-1	J	2SC2412K	AA
Q810	VS2SC2412KQ-1	J	2SC2412K	AA
Q812	VS2SA1037KQ-1	J	2SA1037K	AA
Q813	VS2SA1037KQ-1	J	2SA1037K	AA
Q814	VS2SA1037KQ-1	J	2SA1037K	AA
Q815	VS2SA1037KQ-1	J	2SA1037K	AA
Q816	VS2SA1037KQ-1	J	2SA1037K	AA
Q817	VS2SC2412KQ-1	J	2SC2412K	AA
Q1201	VS2SA1037KQ-1	J	2SA1037K	AA
Q1501	VS2SC2412KQ-1	J	2SC2412K	AA
Q2001	VS2SC3198-G-1	J	2SC3198-G	AA
Q2002	VS2SC3198-G-1	J	2SC3198-G	AA
Q2003	VS2SA1037KQ-1	J	2SA1037K	AA
Q2004	VS2SA1037KQ-1	J	2SA1037K	AA
Q2005	VS2SC2412KQ-1	J	2SC2412K	AA
Q2007	VS2SC2412KQ-1	J	2SC2412K	AA
Q2008	VS2SC2412KQ-1	J	2SC2412K	AA
Q2009	VS2SC2412KQ-1	J	2SC2412K	AA
Q2010	VS2SC2412KQ-1	J	2SC2412K	AA
Q2011	VS2SC2412KQ-1	J	2SC2412K	AA
Q2012	VS2SC2412KQ-1	J	2SC2412K	AA
Q2013	VS2SA1037KQ-1	J	2SA1037K	AA
Q2015	VS2SC2412KQ-1	J	2SC2412K	AA
Q2018	VS2SC2412KQ-1	J	2SC2412K	AA
Q2019	VSFMS1/////-1	J	FMS1A	AC
Q4101	VS2SC2412KQ-1	J	2SC2412K	AA
Q4102	VS2SC2412KQ-1	J	2SC2412K	AA
Q4103	VS2SC2412KQ-1	J	2SC2412K	AA
Q4104	VS2SA1037KQ-1	J	2SA1037K	AA
Q4105	VS2SC2412KQ-1	J	2SC2412K	AA
Q4106	VS2SA1037KQ-1	J	2SA1037K	AA
Q4107	VS2SC2412KQ-1	J	2SC2412K	AA
Q4108	VS2SC2412KQ-1	J	2SC2412K	AA
Q4109	VS2SA1037KQ-1	J	2SA1037K	AA

DIODES

D301	RH-EX0226CEZZ	J	Zener Diode 12V	AB
D303	RH-EX0226CEZZ	J	Zener Diode 12V	AB
D304	RH-EX0226CEZZ	J	Zener Diode 12V	AB
D305	RH-EX0226CEZZ	J	Zener Diode 12V	AB
D351	VHDMA152WK/-1	J	Diode MA152WK	AA
D401	VHDMA152WK/-1	J	Diode MA152WK	AA
D402	RH-EX0226CEZZ	J	Zener Diode 12V	AB
D403	RH-EX0226CEZZ	J	Zener Diode 12V	AB
D404	RH-EX0226CEZZ	J	Zener Diode 12V	AB
D601	VHDMA152WK/-1	J	Diode MA152WK	AA
D602	VHDMA152WK/-1	J	Diode MA152WK	AA
D801	RH-EX0497CEZZ	J	Zener Diode	AC
D804	VHDMA152WK/-1	J	Diode MA152WK	AA
D805	VHDMA153///-1	J	Diode MA153	AB
D806	VHDMA152WK/-1	J	Diode MA152WK	AA

DUNTK9071DE01
MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
D808	RH-EX0294CEZZ	J	Zener Diode 5.1V	AA
D1201	VHDMA152WK/-1	J	Diode MA152WK	AA
D1202	VHDMA152WK/-1	J	Diode MA152WK	AA
D1203	VHDMA152WK/-1	J	Diode MA152WK	AA
D1204	VHDMA152WK/-1	J	Diode MA152WK	AA
D1205	VHDMA152WK/-1	J	Diode MA152WK	AA
D1501	VHDMA153///-1	J	Diode MA153	AB
D2001	RH-EX0515CEZZ	J	Zener Diode	AB
D2002	VHDMA152WK/-1	J	Diode MA152WK	AA
D2003	RH-EX0515CEZZ	J	Zener Diode	AB
D2004	VHDMA152WK/-1	J	Diode MA152WK	AA
D2005	RH-EX0516CEZZ	J	Zener Diode	AB
D2006	RH-EX0226CEZZ	J	Zener Diode 12V	AB
D2008	RH-EX0516CEZZ	J	Zener Diode	AB
D2011	RH-EX0251CEZZ	J	Zener Diode	AB
D2013	VHDMA152WK/-1	J	Diode MA152WK	AA
D2014	VHDMA152WK/-1	J	Diode MA152WK	AA
D2015	VHDMA152WK/-1	J	Diode MA152WK	AA
D2016	VHDMA152WK/-1	J	Diode MA152WK	AA
D2017	VHDMA152WK/-1	J	Diode MA152WK	AA
D2018	VHDMA152WK/-1	J	Diode MA152WK	AA
D2019	VHDMA152WK/-1	J	Diode MA152WK	AA
D2020	VHDMA153///-1	J	Diode MA153	AB
D2021	VHDMA153///-1	J	Diode MA153	AB
D2022	VHDMA153///-1	J	Diode MA153	AB
D2023	VHDMA153///-1	J	Diode MA153	AB
D2025	VHDMA152WK/-1	J	Diode MA152WK	AA
D2026	VHDMA152WK/-1	J	Diode MA152WK	AA
D2027	VHDMA153///-1	J	Diode MA153	AB
D2028	VHDMA153///-1	J	Diode MA153	AB
D2029	VHDMA153///-1	J	Diode MA153	AB
D2030	VHDMA153///-1	J	Diode MA153	AB
D2035	VHDMA152WK/-1	J	Diode MA152WK	AA
D2036	VHDMA152WK/-1	J	Diode MA152WK	AA
D2037	VHDMA152WK/-1	J	Diode MA152WK	AA
D2038	VHDMA152WK/-1	J	Diode MA152WK	AA
D2041	RH-EX0516CEZZ	J	Zener Diode	AB
D2042	RH-EX0251CEZZ	J	Zener Diode	AB
D2043	RH-EX0251CEZZ	J	Zener Diode	AB
D2044	RH-EX0251CEZZ	J	Zener Diode	AB
D2045	RH-EX0251CEZZ	J	Zener Diode	AB
D2046	RH-EX0251CEZZ	J	Zener Diode	AB
D2047	VHDMA152WK/-1	J	Diode MA152WK	AA
D2048	VHDMA152WK/-1	J	Diode MA152WK	AA
D2049	VHDMA153///-1	J	Diode MA153	AB
D2050	VHDMA153///-1	J	Diode MA153	AB
D2051	VHDMA153///-1	J	Diode MA153	AB
D2052	VHDMA152WK/-1	J	Diode MA152WK	AA
D2053	VHDMA152WK/-1	J	Diode MA152WK	AA
D2054	VHDMA152WK/-1	J	Diode MA152WK	AA
D2055	RH-EX0516CEZZ	J	Zener Diode	AB
D4101	RH-EX0515CEZZ	J	Zener Diode	AB
D4102	VHD1SV217//-1	J	Diode 1SV217	AB

Ref. No.	Part No.	★	Description	Code
PACKAGED CIRCUITS				
X801	RCRSB0002CEZZ	J	Crystal 4.43 MHz	AM
X802	RCRSB0069CEZZ	J	Crystal 3.58 MHz	AG
COIL AND TRANSFORMERS				
CF401	RFiLC0286CEZZ	J	Ceramic Filter	AE
CF801	RFiLA0034CEZZ	J	Ceramic Filter	AD
CF2001	RFiLC0112GEZZ	J	Ceramic Filter	AC
DL401	RCiLZ0914CEZZ	J	Delay Line Coil	AS
DL402	RCiLZ0893CEZZ	J	Delay Line Coil	AM
DL403	RCiLZ0894CEZZ	J	Delay Line Coil	AM
DL404	RCiLZ0923CEZZ	J	Delay Line Coil	AK
FL4101	RCiLF0214CEZZ	J	Filter	AF
FL4104	RCiLF0214CEZZ	J	Filter	AF
L401	VP-MK470K0000	J	Peaking Coil 47µH	AB
L411	VP-MK680K0000	J	Peaking Coil 68µH	AB
L412	VP-MK560K0000	J	Peaking Coil 56µH	AB
L801	VP-MK120K0000	J	Peaking Coil 12µH	AB
L802	VP-MK180K0000	J	Peaking Coil 18µH	AB
L803	VP-MK270K0000	J	Peaking Coil 27µH	AB
L804	VP-MK220K0000	J	Peaking Coil 22µH	AB
L805	VP-MK220K0000	J	Peaking Coil 22µH	AB
L2001	VP-MK100K0000	J	Peaking Coil 10µH	AB
L2002	VP-MK100K0000	J	Peaking Coil 10µH	AB
L4101	RCiLB0065CEZZ	J	Oscillation Coil	AG
L4102	VP-1M3R3JR93N	J	Peaking Coil 3.3µH	AB
T401	RCiLi0596CEZZ	J	IF Coil	AG
T402	RCiLi0595CEZZ	J	IF Coil	AG
CONTROLS				
R655	RVR-M4262CEZZ	J	220(B)	AD
R853	RVR-M4266CEZZ	J	1k(B) Blue Sub-Contrast	AC
R858	RVR-M4266CEZZ	J	1k(B) Red Sub-Contrast	AC
R1515	RVR-M4277CEZZ	J	68k(B) AGC	AD
CAPACITORS				
C301	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C302	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C303	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C304	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C305	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C307	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C319	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C320	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C351	VCEAPF1CW226M	J	22 16V Electrolytic	AB
C352	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C353	VCEAGA1EW108M	J	1000 25V Electrolytic	AD
C354	VCFYFA1HA154J	J	0.15 50V M. Polyester	AC
C355	VCEAGA1EW107M	J	100 25V Electrolytic	AD
C356	VCQYTA1HM104J	J	0.1 50V Mylar	AA
C357	VCEAGA1EW108M	J	1000 25V Electrolytic	AD
C358	VCEAPF1HW105M	J	1 50V Electrolytic	AB
C359	VCQYTA1HM332J	J	3300p 50V Mylar	AA
C360	VCQYTA1HM104J	J	0.1 50V Mylar	AA
C361	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C362	VCEAPK1CN107M	J	100 16V Electrolytic	AD

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Ref. No.	Part No.	★			Description	Code
C363	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C364	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C365	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C366	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C367	VCCCTV1HH561J	J	560p	50V	Ceramic	AA
C368	VCQYTA1HM273J	J	0.027	50V	Mylar	AB
C370	VCEAPF1HW104M	J	0.1	50V	Electrolytic	AB
C371	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C372	VCEAGA1HW105M	J	1	50V	Electrolytic	AC
C401	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C402	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C403	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C404	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C405	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C406	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C407	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C408	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C409	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C410	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C411	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C412	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C413	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C414	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C415	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C416	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C417	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C418	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C419	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C420	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C421	VCE9PF1CW106M	J	10	16V	Elect. (N.P)	AC
C422	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C423	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C424	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C425	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C426	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C427	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C428	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C429	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C430	VCCCTV1HH560J	J	56p	50V	Ceramic	AA
C431	VCCCTV1HH820J	J	82p	50V	Ceramic	AA
C432	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C433	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C434	VCCCTV1HH331J	J	330p	50V	Ceramic	AA
C435	VCCCTV1HH680J	J	68p	50V	Ceramic	AA
C436	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C437	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C438	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C441	VCE9PF1CW106M	J	10	16V	Elect. (N.P)	AC
C442	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C444	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C601	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C602	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C603	VCCCTV1HH220J	J	22p	50V	Ceramic	AA
C604	VCE9PF1CW226M	J	22	16V	Elect. (N.P)	AD
C605	VCCCTV1HH221J	J	220p	50V	Ceramic	AA
C606	VCCCTV1HH821J	J	820p	50V	Ceramic	AB
C607	VCQYTA1HM183J	J	0.018	50V	Mylar	AB
C608	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C609	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C610	VCKYTV1HF223Z	J	0.022	50V	Ceramic	AA
C611	VCCCTV1HH102J	J	1000p	50V	Ceramic	AA
C612	VCCCTV1HH102J	J	1000p	50V	Ceramic	AA
C613	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C614	VCCCTV1HH561J	J	560p	50V	Ceramic	AA
C615	VCCCTV1HH102J	J	1000p	50V	Ceramic	AA
C616	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C617	VCCCTV1HH102J	J	1000p	50V	Ceramic	AA
C618	VCCCTV1HH102J	J	1000p	50V	Ceramic	AA
C619	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C620	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C621	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C622	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C623	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C624	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C625	VCKYTV1HB222K	J	2200p	50V	Ceramic	AA
C626	VCCUTV1HJ121J	J	120p	50V	Ceramic	AB
C801	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C802	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C803	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C804	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C805	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C806	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C807	VCEAPF1HW474M	J	0.47	50V	Electrolytic	AB
C808	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C809	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C810	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C811	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C812	VCQYTA1HM104J	J	0.1	50V	Mylar	AA
C813	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C814	VCE9PF1HW474M	J	0.47	50V	Elect. (N.P)	AD
C815	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C816	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C817	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C818	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C819	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C820	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C821	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C822	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C823	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C824	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C825	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C826	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C827	VCKYTV1HB562K	J	5600p	50V	Ceramic	AA
C828	VCQYTA1HM103J	J	0.01	50V	Mylar	AA
C829	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C831	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C832	VCEAGA1CW477M	J	470	16V	Electrolytic	AC
C833	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C834	VCQYTA1HM103J	J	0.01	50V	Mylar	AA

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Ref. No.	Part No.	★	Description	Code
C835	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C836	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C837	VCEAGA1CW477M	J	470 16V Electrolytic	AC
C838	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C839	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C840	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C841	VCEAPF1CW476M	J	47 16V Electrolytic	AC
C842	VCQYTA1HM103J	J	0.01 50V Mylar	AA
C843	VCEAPF1HW225M	J	2.2 50V Electrolytic	AB
C844	VCEAPF1HW105M	J	1 50V Electrolytic	AB
C845	VCCCTV1HH820J	J	82p 50V Ceramic	AA
C846	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C847	VCCCTV1HH820J	J	82p 50V Ceramic	AA
C848	VCQYTA1HM223J	J	0.022 50V Mylar	AA
C849	VCCCTV1HH470J	J	47p 50V Ceramic	AA
C850	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C852	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C853	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C854	VCEAGA1CW477M	J	470 16V Electrolytic	AC
C855	VCEAPF1EW475M	J	4.7 25V Electrolytic	AB
C856	VCQYTA1HM223J	J	0.022 50V Mylar	AA
C857	VCCCTV1HH120J	J	12p 50V Ceramic	AA
C858	VCCCTV1HH100D	J	10p 50V Ceramic	AA
C859	VCQYTA1HM223J	J	0.022 50V Mylar	AA
C860	VCCCTV1HH270J	J	27p 50V Ceramic	AA
C861	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C862	VCCCTV1HH220J	J	22p 50V Ceramic	AA
C863	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C864	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C865	VCEAPK1CN107M	J	100 16V Electrolytic	AD
C866	VCQYTA1HM104J	J	0.1 50V Mylar	AA
C867	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C868	VCCCTV1HH470J	J	47p 50V Ceramic	AA
C869	VCCCTV1HH270J	J	27p 50V Ceramic	AA
C870	VCEAPF1HW105M	J	1 50V Electrolytic	AB
C871	VCEAPF1HW105M	J	1 50V Electrolytic	AB
C872	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C873	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C874	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C875	VCEAGA1CW477M	J	470 16V Electrolytic	AC
C876	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C878	VCKYTV1HF224Z	J	0.22 50V Ceramic	AC
C880	VCEAPF1HW105M	J	1 50V Electrolytic	AB
C882	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C883	VCCCTV1HH220J	J	22p 50V Ceramic	AA
C884	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C885	VCE9PF1CW106M	J	10 16V Elect. (N.P)	AC
C886	VCE9PF1CW106M	J	10 16V Elect. (N.P)	AC
C887	VCE9PF1CW106M	J	10 16V Elect. (N.P)	AC
C889	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C890	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C891	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C892	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB

Ref. No.	Part No.	★	Description	Code
C1201	VCEAPK1CN107M	J	100 16V Electrolytic	AD
C1210	VCEAPK1CN107M	J	100 16V Electrolytic	AD
C1211	VCEAPK1CN107M	J	100 16V Electrolytic	AD
C1212	VCEAPK1CN107M	J	100 16V Electrolytic	AD
C1213	VCEAPF0JW107M	J	100 6.3V Electrolytic	AC
C1215	VCEAPK1CN107M	J	100 16V Electrolytic	AD
C1216	VCEAPF1CW476M	J	47 16V Electrolytic	AC
C1217	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1218	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1219	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1220	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1221	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1501	VCE9PF1HW105M	J	1 50V Elect. (N.P)	AC
C1502	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C1503	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C1504	VCEAPF1HW225M	J	2.2 50V Electrolytic	AB
C1505	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1506	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C1507	VCEAPF1HW225M	J	2.2 50V Electrolytic	AB
C1508	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C2001	VCEAPF1CW476M	J	47 16V Electrolytic	AC
C2002	VCEAGA0JW228M	J	2200 6.3V Electrolytic	AD
C2003	VCEAGA0JW477M	J	470 6.3V Electrolytic	AB
C2004	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C2005	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2006	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2007	VCCCTV1HH681J	J	680p 50V Ceramic	AB
C2008	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2009	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C2010	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2011	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2012	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2013	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2014	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2015	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2016	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2017	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2018	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2019	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2020	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2021	VCCCTV1HH330J	J	33p 50V Ceramic	AA
C2022	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2023	VCCCTV1HH330J	J	33p 50V Ceramic	AA
C2024	VCCCTV1HH330J	J	33p 50V Ceramic	AA
C2025	VCCCTV1HH330J	J	33p 50V Ceramic	AA
C2026	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C2027	VCKYTV1HB102K	J	1000p 50V Ceramic	AA
C2028	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2029	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2030	VCKYTV1HB103K	J	0.01 50V Ceramic	AA
C2031	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2032	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2033	VCCCTV1HH101J	J	100p 50V Ceramic	AA
C2034	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C2035	VCKYTV1EF104Z	J	0.1 25V Ceramic	AB
C2036	VCCCTV1HH101J	J	100p 50V Ceramic	AA

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Ref. No.	Part No.	★	Description			Code
C2037	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2038	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2039	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2040	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2041	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2042	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2043	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2044	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2045	VCEAGA1CW228M	J	2200	16V	Electrolytic	AE
C2047	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C2048	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C2049	VCEAGA1CW227M	J	220	16V	Electrolytic	AC
C2053	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C2054	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2055	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2056	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2057	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2058	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2059	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C2060	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C2061	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2062	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C2063	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2064	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2065	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2066	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2068	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2069	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C2070	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C2071	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C2072	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C2073	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2074	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C2075	VCKYTV1HB102K	J	1000p	50V	Ceramic	AA
C2076	VCEAGA0JW477M	J	470	6.3V	Electrolytic	AB
C2077	VCCCTV1HH121J	J	120p	50V	Ceramic	AA
C2078	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C2080	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C2081	VCKYPA1HF103Z	J	0.01	50V	Ceramic	AA
C2088	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2089	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2090	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2091	VCEAGA1CW106M	J	10	16V	Electrolytic	AA
C2093	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2094	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2095	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2096	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2097	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C2098	VCKYTV1HB103K	J	0.01	50V	Ceramic	AA
C4101	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4102	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4103	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4104	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4105	VCCCTV1HH471J	J	470p	50V	Ceramic	AA
C4106	VCCCTV1HH561J	J	560p	50V	Ceramic	AA
C4107	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4108	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4109	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4110	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C4111	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C4112	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C4113	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4114	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4115	VCE9PF1CW475M	J	4.7	16V	Elect. (N.P)	AC
C4116	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C4117	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4118	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C4119	VCCCTV1HH220J	J	22p	50V	Ceramic	AA
C4120	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C4121	VCCCTV1HH270J	J	27p	50V	Ceramic	AA
C4122	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C4123	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4124	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4125	VCCCTV1HH102J	J	1000p	50V	Ceramic	AA
C4126	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4127	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C4128	VCEAPK1CN107M	J	100	16V	Electrolytic	AD
C4129	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4135	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4136	VCCCTV1HH120J	J	12p	50V	Ceramic	AA
C4137	VCCCTV1HH820J	J	82p	50V	Ceramic	AA
C4139	VCCCTV1HH470J	J	47p	50V	Ceramic	AA
C4140	VCCCTV1HH101J	J	100p	50V	Ceramic	AA
C4141	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C4142	VCEAGA0JW476M	J	47	6.3V	Electrolytic	AB

RESISTORS

Ref. No.	Part No.	★			Description	Code
R301	VRS-TV1JD681J	J	680	1/10W	Metal Oxide	AA
R302	VRS-TV1JD153J	J	15k	1/10W	Metal Oxide	AA
R303	VRS-TV1JD105J	J	1M	1/10W	Metal Oxide	AA
R304	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R308	VRS-TV1JD683J	J	68k	1/10W	Metal Oxide	AA
R309	VRS-TV1JD683J	J	68k	1/10W	Metal Oxide	AA
R310	VRS-TV1JD153J	J	15k	1/10W	Metal Oxide	AA
R314	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R315	VRS-TV1JD681J	J	680	1/10W	Metal Oxide	AA
R316	VRS-TV1JD105J	J	1M	1/10W	Metal Oxide	AA
R317	VRS-TV1JD153J	J	15k	1/10W	Metal Oxide	AA
R318	VRS-TV1JD153J	J	15k	1/10W	Metal Oxide	AA
R319	VRS-TV1JD683J	J	68k	1/10W	Metal Oxide	AA
R320	VRS-TV1JD683J	J	68k	1/10W	Metal Oxide	AA
R321	VRS-TV1JD122J	J	1.2k	1/10W	Metal Oxide	AA
R351	VRS-TV1JD153J	J	15k	1/10W	Metal Oxide	AA
R352	VRS-TV1JD333J	J	33k	1/10W	Metal Oxide	AA
R353	VRS-TV1JD333J	J	33k	1/10W	Metal Oxide	AA
R354	VRN-TV1JD393D	J	39k	1/10W	Metal Film	AB
R355	VRN-TV1JD272D	J	2.7k	1/10W	Metal Film	AA
R356	VRN-TV1JD473D	J	47k	1/10W	Metal Film	AB
R357	VRS-TV1JD4R7J	J	4.7	1/10W	Metal Oxide	AA

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MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R358	VRS-TV1JD334J	J	330k 1/10W Metal Oxide	AA
R359	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R360	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R361	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R362	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R363	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R364	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R365	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R367	VRS-TV1JD224J	J	220k 1/10W Metal Oxide	AA
R368	VRS-TX2HF1R0J	J	1 1/2W Metal Oxide	AA
R370	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R401	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R402	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R403	VRS-TV1JD750J	J	75 1/10W Metal Oxide	AA
R404	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R405	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R406	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R407	VRS-TV1JD271J	J	270 1/10W Metal Oxide	AA
R408	VRS-TV1JD151J	J	150 1/10W Metal Oxide	AA
R409	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R410	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R411	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R412	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R414	VRS-TV1JD750J	J	75 1/10W Metal Oxide	AA
R415	VRS-TV1JD1R0J	J	1 1/10W Metal Oxide	AA
R416	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R417	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R418	VRS-TW2ED750J	J	75 1/4W Metal Oxide	AA
R419	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R420	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R421	VRS-TV1JD221J	J	220 1/10W Metal Oxide	AA
R422	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R423	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R424	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R425	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA
R426	VRS-TV1JD273J	J	27k 1/10W Metal Oxide	AA
R427	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R428	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R429	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R430	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R431	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R432	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R433	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R434	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R435	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R436	VRS-TV1JD393J	J	39k 1/10W Metal Oxide	AA
R437	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R438	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R439	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R441	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R442	VRS-TV1JD821J	J	820 1/10W Metal Oxide	AA
R443	VRS-TV1JD821J	J	820 1/10W Metal Oxide	AA
R444	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R445	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R446	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R447	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R448	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R449	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R450	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R451	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R452	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R453	VRS-TV1JD182J	J	1.8k 1/10W Metal Oxide	AA
R454	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R455	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R456	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R457	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R458	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R459	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R460	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R461	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R462	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R463	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R464	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R465	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R466	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R468	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R469	VRS-TV1JD681J	J	680 1/10W Metal Oxide	AA
R470	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R471	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R472	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R473	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R474	VRS-TV1JD681J	J	680 1/10W Metal Oxide	AA
R475	VRS-TV1JD182J	J	1.8k 1/10W Metal Oxide	AA
R476	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R477	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R478	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R601	VRS-TV1JD561J	J	560 1/10W Metal Oxide	AA
R602	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R603	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R604	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R605	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R606	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R607	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R608	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R610	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R611	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R612	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R613	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R614	VRS-TV1JD394J	J	390k 1/10W Metal Oxide	AA
R615	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R616	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R617	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R618	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R619	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R620	VRN-TV1JD223D	J	22k 1/10W Metal Film	AB
R621	VRN-TV1JD473D	J	47k 1/10W Metal Film	AB
R622	VRS-TV1JD333J	J	33k 1/10W Metal Oxide	AA
R623	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA
R624	VRS-TV1JD123J	J	12k 1/10W Metal Oxide	AA

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MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R631	VRN-TV1JD682D	J	6.8k 1/10W Metal Film	AA
R632	VRN-TV1JD103D	J	10k 1/10W Metal Film	AB
R633	VRN-TV1JD183D	J	18k 1/10W Metal Film	AA
R634	VRN-TV1JD103D	J	10k 1/10W Metal Film	AB
R636	VRN-TV1JD562D	J	5.6k 1/10W Metal Film	AA
R637	VRN-TV1JD113D	J	11k 1/10W Metal Film	AB
R639	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R640	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R641	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R642	VRS-TV1JD681J	J	680 1/10W Metal Oxide	AA
R643	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R644	VRS-TV1JD153J	J	15k 1/10W Metal Oxide	AA
R645	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R646	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R647	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R648	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R649	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R650	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R651	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R652	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R653	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R654	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R655	*See Controls*			
R656	VRS-TV1JD155J	J	1.5M 1/10W Metal Oxide	AA
R803	VRS-TV1JD225J	J	2.2M 1/10W Metal Oxide	AA
R806	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R807	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R808	VRS-TX2HF121J	J	120 1/2W Metal Oxide	AB
R809	VRS-TV1JD395J	J	3.9M 1/10W Metal Oxide	AA
R810	VRS-TV1JD472J	J	4.7k 1/10W Metal Oxide	AA
R811	VRS-TV1JD331J	J	330 1/10W Metal Oxide	AA
R812	VRS-TX2HF101J	J	100 1/2W Metal Oxide	AA
R813	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R814	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R815	VRS-TV1JD822J	J	8.2k 1/10W Metal Oxide	AA
R818	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R819	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R820	VRS-TV1JD824J	J	820k 1/10W Metal Oxide	AA
R821	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R822	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R823	VRS-TV1JD682J	J	6.8k 1/10W Metal Oxide	AA
R824	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R825	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R826	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R827	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R828	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R829	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R830	VRS-TV1JD394J	J	390k 1/10W Metal Oxide	AA
R831	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R832	VRS-TV1JD223J	J	22k 1/10W Metal Oxide	AA
R833	VRS-TV1JD182J	J	1.8k 1/10W Metal Oxide	AA
R834	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R835	VRS-TV1JD221J	J	220 1/10W Metal Oxide	AA
R836	VRS-TV1JD182J	J	1.8k 1/10W Metal Oxide	AA
R837	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R838	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R839	VRS-TV1JD222J	J	2.2k 1/10W Metal Oxide	AA
R840	VRS-TV1JD104J	J	100k 1/10W Metal Oxide	AA
R841	VRS-TV1JD122J	J	1.2k 1/10W Metal Oxide	AA
R842	VRS-TV1JD821J	J	820 1/10W Metal Oxide	AA
R843	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R844	VRS-TV1JD474J	J	470k 1/10W Metal Oxide	AA
R845	VRS-TV1JD473J	J	47k 1/10W Metal Oxide	AA
R846	VRS-TV1JD225J	J	2.2M 1/10W Metal Oxide	AA
R847	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R848	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R849	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R850	VRS-TV1JD224J	J	220k 1/10W Metal Oxide	AA
R851	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R852	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R853	*See Controls*			
R854	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R855	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R856	VRS-TV1JD152J	J	1.5k 1/10W Metal Oxide	AA
R857	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R858	*See Controls*			
R859	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R861	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R864	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R867	VRS-TV1JD332J	J	3.3k 1/10W Metal Oxide	AA
R868	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R869	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R870	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R871	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R872	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R873	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R875	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R876	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R877	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R878	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R879	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R880	VRS-TV1JD471J	J	470 1/10W Metal Oxide	AA
R882	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R884	VRS-TV1JD000J	J	0 1/10W Metal Oxide	AA
R885	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R886	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R887	VRS-TV1JD562J	J	5.6k 1/10W Metal Oxide	AA
R888	VRS-TV1JD512F	J	5.1k 1/10W Metal Oxide	AA
R889	VRS-TV1JD332F	J	3.3k 1/10W Metal Oxide	AA
R890	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R891	VRS-TV1JD102J	J	1k 1/10W Metal Oxide	AA
R1201	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R1202	VRS-TX2HF6R8J	J	6.8 1/2W Metal Oxide	AA
R1203	VRS-TV1JD392J	J	3.9k 1/10W Metal Oxide	AA
R1204	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1205	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1210	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1211	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA
R1212	VRS-TV1JD103J	J	10k 1/10W Metal Oxide	AA

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MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R1213	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R1220	VRS-TX2HF180J	J 18	1/2W Metal Oxide	AS
R1221	VRS-TX2HF180J	J 18	1/2W Metal Oxide	AS
R1222	VRN-VV3LB4R7J	J 4.7	3W Metal Film	AC
R1223	VRS-VV3LB1R0J	J 1	3W Metal Oxide	AB
R1224	VRS-TV1JD272J	J 2.7k	1/10W Metal Oxide	AA
R1225	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R1501	VRS-TV1JD472J	J 4.7k	1/10W Metal Oxide	AA
R1502	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R1503	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R1504	VRS-TV1JD104J	J 100k	1/10W Metal Oxide	AA
R1505	VRS-TV1JD333J	J 33k	1/10W Metal Oxide	AA
R1506	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R1507	VRS-TV1JD154J	J 150k	1/10W Metal Oxide	AA
R1508	VRS-TV1JD104J	J 100k	1/10W Metal Oxide	AA
R1511	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R1512	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R1513	VRS-TV1JD393J	J 39k	1/10W Metal Oxide	AA
R1514	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R1515	*See Controls*			
R1516	VRS-TV1JD333J	J 33k	1/10W Metal Oxide	AA
R1517	VRS-TV1JD473J	J 47k	1/10W Metal Oxide	AA
R2001	VRS-TX2HF681J	J 680	1/2W Metal Oxide	AA
R2002	VRS-TX2HF681J	J 680	1/2W Metal Oxide	AA
R2003	VRS-TX2HF5R6J	J 5.6	1/2W Metal Oxide	AA
R2004	VRS-TV1JD101J	J 100	1/10W Metal Oxide	AA
R2005	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2006	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2007	VRN-TV1JD103D	J 10k	1/10W Metal Film	AB
R2008	VRN-TV1JD103D	J 10k	1/10W Metal Film	AB
R2009	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2010	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2011	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2012	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2013	VRS-TV1JD123J	J 12k	1/10W Metal Oxide	AA
R2014	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2015	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2016	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2017	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2018	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2019	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2020	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2021	VRS-TV1JD123J	J 12k	1/10W Metal Oxide	AA
R2022	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2023	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2024	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2025	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2026	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2027	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2028	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2029	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2030	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2031	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2032	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2033	VRS-TV1JD682J	J 6.8k	1/10W Metal Oxide	AA
R2034	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2035	VRS-TV1JD682J	J 6.8k	1/10W Metal Oxide	AA
R2036	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2037	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2038	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2039	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2040	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2041	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2042	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2043	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2044	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2045	VRS-TV1JD222J	J 2.2k	1/10W Metal Oxide	AA
R2046	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2047	VRS-TV1JD105J	J 1M	1/10W Metal Oxide	AA
R2048	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2049	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2050	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2051	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2052	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2053	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R2054	VRS-TV1JD471J	J 470	1/10W Metal Oxide	AA
R2055	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2056	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2057	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2058	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2059	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2060	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2061	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2062	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2063	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2064	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2065	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2066	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2067	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2068	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2069	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2070	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2071	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2072	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2073	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2074	VRS-TV1JD562J	J 5.6k	1/10W Metal Oxide	AA
R2075	VRS-TV1JD223J	J 22k	1/10W Metal Oxide	AA
R2076	VRS-TV1JD392J	J 3.9k	1/10W Metal Oxide	AA
R2078	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2079	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2080	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2081	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2082	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2083	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2084	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2085	VRS-TV1JD100J	J 10	1/10W Metal Oxide	AA
R2086	VRS-TV1JD103J	J 10k	1/10W Metal Oxide	AA
R2088	VRS-TV1JD102J	J 1k	1/10W Metal Oxide	AA
R2089	VRS-TV1JD222J	J 2.2k	1/10W Metal Oxide	AA

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MAIN UNIT (Continued)

Ref. No.	Part No.	★	Description			Code
R2090	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R2091	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R2092	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R2093	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R2094	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R2095	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R2098	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2101	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2102	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2103	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2104	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2105	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2106	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2107	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2108	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2109	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2110	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2111	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2112	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2113	VRS-TV1JD563J	J	56k	1/10W	Metal Oxide	AA
R2114	VRS-TV1JD473J	J	47k	1/10W	Metal Oxide	AA
R2115	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2116	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2123	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2124	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2125	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide	AA
R2126	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R2127	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2128	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R2129	VRS-TV1JD223J	J	22k	1/10W	Metal Oxide	AA
R2130	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R2131	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R2132	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R2133	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2134	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2136	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2140	VRS-VV3LB1R0J	J	1	3W	Metal Oxide	AB
R2141	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2142	VRS-VV3LB3R3J	J	3.3	3W	Metal Oxide	AB
R2143	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2144	VRS-TV1JD473J	J	47k	1/10W	Metal Oxide	AA
R2145	VRS-TV1JD473J	J	47k	1/10W	Metal Oxide	AA
R2153	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2154	VRS-TV1JD393J	J	39k	1/10W	Metal Oxide	AA
R2155	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2156	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2157	VRS-TV1JD184J	J	180k	1/10W	Metal Oxide	AA
R2158	VRN-TV1JD242D	J	2.4k	1/10W	Metal Film	AA
R2159	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R2160	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R2161	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R2162	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide	AA
R2163	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R2164	VRS-TV1JD121J	J	120	1/10W	Metal Oxide	AA
R2165	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2166	VRS-TV1JD822J	J	8.2k	1/10W	Metal Oxide	AA
R2168	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2169	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R2170	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R2171	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide	AA
R2173	VRS-TV1JD153J	J	15k	1/10W	Metal Oxide	AA
R2175	VRS-TV1JD333J	J	33k	1/10W	Metal Oxide	AA
R2176	VRS-TV1JD473J	J	47k	1/10W	Metal Oxide	AA
R2177	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2178	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R2179	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2180	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R2181	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2182	VRS-TV1JD104J	J	100k	1/10W	Metal Oxide	AA
R2183	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2184	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R2185	VRS-TV1JD682J	J	6.8k	1/10W	Metal Oxide	AA
R2189	VRS-TV1JD123J	J	12k	1/10W	Metal Oxide	AA
R2190	VRS-TV1JD182J	J	1.8k	1/10W	Metal Oxide	AA
R2191	VRS-TV1JD182J	J	1.8k	1/10W	Metal Oxide	AA
R2192	VRS-TV1JD822J	J	8.2k	1/10W	Metal Oxide	AA
R2193	VRS-TV1JD184J	J	180k	1/10W	Metal Oxide	AA
R2194	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R4101	VRS-CB1JF391J	J	390	1/10W	Metal Oxide	AC
R4105	VRS-CB1JF391J	J	390	1/10W	Metal Oxide	AC
R4109	VRS-TX2HF181J	J	180	1/2W	Metal Oxide	AA
R4110	VRS-TX2HF221J	J	220	1/2W	Metal Oxide	AA
R4111	VRS-TV1JD563J	J	56k	1/10W	Metal Oxide	AA
R4112	VRS-TV1JD105J	J	1M	1/10W	Metal Oxide	AA
R4113	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R4114	VRS-TV1JD683J	J	68k	1/10W	Metal Oxide	AA
R4115	VRS-TV1JD105J	J	1M	1/10W	Metal Oxide	AA
R4116	VRS-TV1JD682J	J	6.8k	1/10W	Metal Oxide	AA
R4117	VRS-TV1JD683J	J	68k	1/10W	Metal Oxide	AA
R4118	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide	AA
R4119	VRS-TV1JD273J	J	27k	1/10W	Metal Oxide	AA
R4120	VRS-TV1JD472J	J	4.7k	1/10W	Metal Oxide	AA
R4121	VRS-TV1JD563J	J	56k	1/10W	Metal Oxide	AA
R4122	VRS-TV1JD271J	J	270	1/10W	Metal Oxide	AA
R4123	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R4124	VRS-CB1JF391J	J	390	1/10W	Metal Oxide	AC
R4127	VRS-CB1JF391J	J	390	1/10W	Metal Oxide	AC
R4132	VRS-CB1JF271J	J	270	1/10W	Metal Oxide	AC
R4136	VRS-CB1JF271J	J	270	1/10W	Metal Oxide	AC
R4141	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R4142	VRS-TV1JD560J	J	56	1/10W	Metal Oxide	AA
R4143	VRS-TV1JD561J	J	560	1/10W	Metal Oxide	AA
R4144	VRS-TV1JD561J	J	560	1/10W	Metal Oxide	AA
R4145	VRS-TV1JD222J	J	2.2k	1/10W	Metal Oxide	AA
R4146	VRS-TV1JD122J	J	1.2k	1/10W	Metal Oxide	AA
R4147	VRS-TV1JD391J	J	390	1/10W	Metal Oxide	AA
R4148	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R4149	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R4150	VRS-TV1JD560J	J	56	1/10W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

DUNTK9071DE02
MAIN UNIT (Continued)

R4151	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R4152	VRS-TV1JD182J	J	1.8k	1/10W	Metal Oxide	AA
R4153	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R4154	VRS-TV1JD333J	J	33k	1/10W	Metal Oxide	AA
R4155	VRS-TV1JD823J	J	82k	1/10W	Metal Oxide	AA
R4156	VRS-TV1JD152J	J	1.5k	1/10W	Metal Oxide	AA
R4157	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R4158	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R4159	VRS-TV1JD102J	J	1k	1/10W	Metal Oxide	AA
R4160	VRS-TV1JD272J	J	2.7k	1/10W	Metal Oxide	AA
R4161	VRS-TV1JD560J	J	56	1/10W	Metal Oxide	AA
R4162	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R4163	VRS-TV1JD473J	J	47k	1/10W	Metal Oxide	AA
R4165	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R4166	VRS-TV1JD000J	J	0	1/10W	Metal Oxide	AA
R4167	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R4168	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R4169	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R4170	VRS-TV1JD103J	J	10k	1/10W	Metal Oxide	AA
R4171	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA
R4176	VRS-TV1JD471J	J	470	1/10W	Metal Oxide	AA

SWITCHES

S2001	QSW-K0076CEZZ	J	ADJ. IN	AB
S2002	QSW-K0076CEZZ	J	CALL	AB
S2003	QSW-K0076CEZZ	J	RESET	AB

MISCELLANEOUS PARTS

FB1201	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB1202	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB1203	RBLN-0060CEZZ	J	Ferrite Bead	AC
FB2001	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB2002	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB2003	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB2004	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB2005	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB2006	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB4101	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4102	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4103	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4104	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4105	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4106	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4107	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4108	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4109	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4110	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4111	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4112	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB4113	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB4114	RBLN-0059CEZZ	J	Ferrite Bead	AB
J301	QJAKJ0052CEZZ	J	Computer Audio In Jack	AD
J401	QTANJ0522CEZZ	J	A/V In/Out Jack	AL

Ref. No.	Part No.	★	Description	Code

J402	QSOCD0432CEZZ	J	S-Video Terminal	AE
J1201	QJAKE0008TAZZ	J	DC 12V Output Jack	AE
P301	QPLGN0174FJZZ	J	Plug 2-pin (SP)	AC
P1201	QPLGN0180FJZZ	J	Plug 8-pin (EA)	AD
P1202	QPLGN0181FJZZ	J	Plug 9-pin (EB)	AE
P2001	QPLGN0242CEZZ	J	Plug 2-pin (FC)	AA
P2003	QPLGN0564TAZZ	J	Plug 5-pin (RA)	AC
P2004	QPLGN0174FJZZ	J	Plug 2-pin (Q)	AC
P2005	QPLGN0174FJZZ	J	Plug 2-pin (QA)	AC
P2007	QPLGN0175FJZZ	J	Plug 3-pin (L)	AD
SC601	QSOCZ0542CEZZ	J	Socket 5-pin	AE
SC801	QSOCZ2228CEZZ	J	Socket 22-pin (CA)	AF
SC802	QSOCZ0742CEZZ	J	Socket 7-pin	AE
SC2001	QSOCN1640TAZZ	J	Socket 16-pin (KE)	AG
SC2002	QSOCZ2228CEZZ	J	Socket 22-pin (CS)	AF
SC2003	QSOCZ0642CEZZ	J	Socket 6-pin	AE
SC4101	QSOCZ0542CEZZ	J	Socket 5-pin	AE
TP602	QLUGP0103GEFW	J	Lug, Test Point	AA
TP802	QLUGP0103GEFW	J	Lug, Test Point	AA
TP803	QLUGP0103GEFW	J	Lug, Test Point	AA
TP808	QLUGP0103GEFW	J	Lug, Test Point	AA
TP809	QLUGP0103GEFW	J	Lug, Test Point	AA
	QCNW-4529CEZZ	J	Connecting Wire	AC
	QSOCZ6434GEZZ	J	Socket 64-pin, for IC2001	AG

DUNTK9072DE02
R/C RECEIVER UNIT

CAPACITOR

C2501	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC

RESISTORS

R2501	VRS-TV1JD220J	J	22	1/10W	Metal Oxide	AA
R2502	VRS-TV1JD101J	J	100	1/10W	Metal Oxide	AA

MISCELLANEOUS PARTS

P2501	QPLGN0364TAZZ	J	Plug 3-pin (RA)	AC
RMC2501	RRMCU0196CEZZ	J	R/C Receiver	AM

Ref. No.	Part No.	★	Description	Code

RUNTK0526CEZZ
POWER SWITCH UNIT

COILS

⚠L701	95KUKZ0815ZZ	J	Filter	AQ
⚠L702	95KUKZ0816ZZ	J	Filter	AQ

CAPACITORS

C701	95KUGFZ474FE	J	0.47 .	Film	AH
C702	95KUGCM222AU	J	2200p .	Ceramic	AD
C703	95KUGCM222AU	J	2200p .	Ceramic	AD
C704	95KUGFZ224FE	J	0.22 .	Film	AF
C739	95KUGCM222AU	J	2200p	Ceramic	AD

RESISTORS

R701	95KUEEC394CH	J	390k 1/2W	Carbon	AC
R762	95KUEEC394CH	J	390k 1/2W	Carbon	AC

MISCELLANEOUS PARTS

⚠F701	95KPJCZZ0050	J	Fuse T6.3AH 250V	AH
⚠SW701	95KPFZ0226ZZ	J	AC Power Switch	AM
	95KPKZ1167ZZ	J	Base Pin 3-pin (PA)	AK
	95KPKZ1168ZZ	J	Base Pin 2-pin (PE)	AD

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POWER/BALLAST UNIT

INTEGRATED CIRCUITS

IC101	95KUCZ0091ZZ	J	M5T494P	AK
IC102	95KUCC0015AZ	J	M5239L	AF
IC701	95KUCH0097ZZ	J	ZHMA5194	AM
IC702	95KUCC0043AK	J	TA76431S	AE

TRANSISTORS

Q102	95KUAY0046AK	J	2SB736	AC
Q103	95KUAY0012AK	J	2SA812	AB
Q104	95KUAY0013AK	J	2SC1623	AB
Q105	95KUAY0012AK	J	2SA812	AB
Q106	95KUAY0013AK	J	2SC1623	AB
Q107	95KUAY0013AK	J	2SC1623	AB
Q108	95KUAY0013AK	J	2SC1623	AB
Q701	95KUAC0251AZ	J	2SC4538	AN
Q702	95KUAC0243AK	J	2SC3266	AC
Q704	95KUAC0004AK	J	2SC945	AB
Q707	95KUAB0019AZ	J	2SB1094	AG
Q708	95KUAC0004AK	J	2SC945	AB
Q709	95KUAC0004AK	J	2SC945	AB
Q710	95KUAB0019AZ	J	2SB1094	AG
Q1701	95KUAG0099AZ	J	FET 2SK1938	AV
Q1702	95KUAG0099AZ	J	FET 2SK1938	AV
Q1703	95KUAA0083AK	J	2SA1680	AE
Q1704	95KUAA0083AK	J	2SA1680	AE
Q1705	95KUAC0270AZ	J	2SC3623	AD
Q1706	95KUAC0234AZ	J	2SC3866	AH
Q1707	95KUAB0010CZ	J	2SB744	AF
Q1708	95KUAC0214AK	J	2SC4408	AD

DIODES

D101	95KUBY0020AK	J	1SS355	AC
D102	95KUBY0020AK	J	1SS355	AC
D103	95KUBY0020AK	J	1SS355	AC
D104	95KUBY0020AK	J	1SS355	AC
D105	95KUBY0020AK	J	1SS355	AC
D106	95KUBY0020AK	J	1SS355	AC
D701	95KUBC0248AK	J	Diode 05NU42	AC
D702	95KUBC0248AK	J	Diode 05NU42	AC
D703	95KUBC0221AK	J	Diode ERA18-02	AC
D704	95KUBA0005KZ	J	Diode 1SS55	AB
D705	95KUBA0005KZ	J	Diode 1SS55	AB
D706	95KUBA0005KZ	J	Diode 1SS55	AB
D707	95KUBC0264BE	J	Diode ERB32-02	AD
D708	95KUBA0005KZ	J	Diode 1SS55	AB
D709	95KUBA0005KZ	J	Diode 1SS55	AB
D710	95KUBC0265BB	J	Diode ERD32-02	AF
D711	95KUBC0263BK	J	Diode ERA32-02	AC
D712	95KUBC0264BE	J	Diode ERB32-02	AD
D713	95KUBC0264BE	J	Diode ERB32-02	AD
D715	95KUBA0005KZ	J	Diode 1SS55	AB
D716	95KUBA0005KZ	J	Diode 1SS55	AB
D1701	95KUBC0221AK	J	Diode ERA18-02	AC
D1702	95KUBC0221AK	J	Diode ERA18-02	AC
D1703	95KUBC0190BK	J	Diode ERC38-05	AG
D1704	95KUBC0125DK	J	Diode ERA15-06	AB
D1705	95KUBA0005KZ	J	Diode 1SS55	AB
D1706	95KUBC0248AK	J	Diode 05NU42	AC
D1707	95KUBC0318AK	J	Diode 1R5NH41	AF
D1708	95KUBC0323AK	J	Diode 05NH45	AE
D1709	95KUBA0005KZ	J	Diode 1SS55	AB
D1710	95KUBC0221AK	J	Diode ERA18-02	AC
⚠DS701	95KUBB0206CZ	J	Diode Stack D10XB60	AP
DS702	95KUBB0226AZ	J	Diode Stack YG801C06	AK
DS1701	95KUBB0229AZ	J	Diode Stack PA905C6	AS
ZD103	95KUBDAK6R2C	J	Zener Diode RD6.2ESAB2	AB
ZD104	95KUBDAK6R2C	J	Zener Diode RD6.2ESAB2	AB
ZD105	95KUBDAK6R2C	J	Zener Diode RD6.2ESAB2	AB
ZD701	95KUBDAK220C	J	Zener Diode RD22ESAB2	AB
ZD702	95KUBDAK4R7C	J	Zener Diode RD4.7ESAB2	AB
ZD1701	95KUBDAK270C	J	Zener Diode RD27ESAB2	AB
ZD1702	95KUBDAK270C	J	Zener Diode RD27ESAB2	AB
ZD1703	95KUBDAK300C	J	Zener Diode RD30ESAB2	AB
ZD1704	95KUBDAK100C	J	Zener Diode RD10ESAB2	AB
ZD1705	95KUBDAK180C	J	Zener Diode RD18ESAB2	AB
ZD1706	95KUBDAK180C	J	Zener Diode RD18ESAB2	AB
THY101	95KUDA0078AK	J	Thyristor CR02AM	AF
THY701	95KUDA0078AK	J	Thyristor CR02AM	AF
THY1701	95KUDA0083ZZ	J	Thyristor SF8JZ47	AF
THY1702	95KUDA0083ZZ	J	Thyristor SF8JZ47	AF

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POWER/BALLAST UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
PACKAGED CIRCUITS				
⚠PC701	95KUDC0163EZ	J	Photo Coupler PC123	AH
⚠PC1701	95KUDC0163EZ	J	Photo Coupler PC123	AH
⚠PC1702	95KUDC0163EZ	J	Photo Coupler PC123	AH
COIL AND TRANSFORMERS				
⚠T701	95K830295022	J	Trans. PTTN85	BB
T1701	95K829195004	J	Trans. DTTX03	BB
⚠T1702	95K748295008	J	Trans. E1246-9001	BQ
⚠L703	95KUKZ0815ZZ	J	Filter	AQ
L704	95KUKZ0432ZZ	J	Choke Coil 22µH	AE
L705	95KUKZ0496ZK	J	Choke Coil 4.7µH	AE
L706	95KUKZ0434ZZ	J	Choke Coil 33µH	AE
L707	95KUKZ0432ZZ	J	Choke Coil 22µH	AE
L1701	95KUKZ0802ZZ	J	Choke Coil CM0830-1G0	BA
CONTROLS				
R736	95KUFBA472DB	J	4.7k(B)	AB
VR1701	95KUFBA103DB	J	10k(B)	AC
VR1702	95KUFBA102DB	J	1k(B)	AB
CAPACITORS				
C101	95KUGXAED104	J	0.1 25V Ceramic (CH)	AB
C102	95KUGXAFC105	J	1 16V Ceramic (CH)	AD
C103	95KUGXAFF104	J	0.1 50V Ceramic (CH)	AB
C104	95KUGXALF102	J	1000p 50V Ceramic (CH)	AC
C105	95KUGXAED104	J	0.1 25V Ceramic (CH)	AB
C106	95KUGXAEF103	J	0.01 50V Ceramic (CH)	AB
C107	95KUGXAFC105	J	1 16V Ceramic (CH)	AD
C108	95KUGAE100KL	J	10 35V Electrolytic	AE
C109	95KUGXAED104	J	0.1 25V Ceramic (CH)	AB
C705	95KUGFZ224FE	J	0.22 Film	AF
C706	95KUGAQ471TX	J	470 400V Electrolytic	AZ
C707	95KUGAQ471TX	J	470 400V Electrolytic	AZ
C708	95KUGFQ103FB	J	0.01 400V Film	AC
C709	95KUGFQ103FB	J	0.01 400V Film	AC
C710	95KUGCU101AV	J	100p 1kV Ceramic	AC
C711	95KUGCF102CB	J	1000p 50V Ceramic	AB
C712	95KUGFF683BQ	J	0.068 50V Film	AB
C713	95KUGFF473BQ	J	0.047 50V Film	AB
C714	95KUGFF332BQ	J	3300p 50V Film	AC
C715	95KUGCU102BV	J	1000p 1kV Ceramic	AC
C716	95KUGAE181TR	J	180 35V Electrolytic	AD
C719	95KUGCU102BV	J	1000p 1kV Ceramic	AC
C720	95KUGAD561TS	J	560 25V Electrolytic	AF
C721	95KUGCU102BV	J	1000p 1kV Ceramic	AC
C722	95KUGZ1056ZZ	J	1200 16V Electrolytic	AF
C723	95KUGZ1056ZZ	J	1200 16V Electrolytic	AF
C724	95KUGCU102BV	J	1000p 1kV Ceramic	AC
C725	95KUGAD221TT	J	220 25V Electrolytic	AD
C726	95KUGCU102BV	J	1000p 1kV Ceramic	AC
C727	95KUGAD222TS	J	2200 25V Electrolytic	AH
C728	95KUGCU102BV	J	1000p 1kV Ceramic	AC
C729	95KUGAD821TS	J	820 25V Electrolytic	AF
C730	95KUGFF473BQ	J	0.047 50V Film	AB
C731	95KUGCU101AV	J	100p 1kV Ceramic	AC
C732	95KUGCU101AV	J	100p 1kV Ceramic	AC
C733	95KUGAD101RV	J	100 25V Electrolytic	AD
C734	95KUGAD101RV	J	100 25V Electrolytic	AD
C735	95KUGAD101RV	J	100 25V Electrolytic	AD
C736	95KUGAD102FE	J	1000 25V Electrolytic	AF
C737	95KUGAD101RV	J	100 25V Electrolytic	AD
C738	95KUGFZ224FE	J	0.22 Film	AF
C740	95KUGCM222AU	J	2200p Ceramic	AD
C741	95KUGCM222AU	J	2200p Ceramic	AD
C742	95KUGCM222AU	J	2200p Ceramic	AD
C743	95KUGAF010RV	J	1 50V Electrolytic	AC
C744	95KUGFF104BQ	J	0.1 50V Film	AC
C1701	95KUGFQ104FC	J	0.1 400V Film	AF
C1702	95KUGCU681AK	J	680p 1kV Ceramic	AD
C1703	95KUGFQ225HA	J	2.2 Film	AK
C1704	95KUGCU102BV	J	1000p 1kV Ceramic	AC
C1705	95KUGZ0995ZZ	J	0.22 Film	AH
C1706	95KUGZ0995ZZ	J	0.22 Film	AH
C1707	95KUGFL103HQ	J	0.01 Film	AD
C1708	95KUGAE101PB	J	100 35V Electrolytic	AD
C1709	95KUGAD470PB	J	47 25V Electrolytic	AD
C1710	95KUGAE101PB	J	100 35V Electrolytic	AD
C1711	95KUGAE560TR	J	56 35V Electrolytic	AD
C1745	95KUGCM102AX	J	1000p Ceramic	AD
C1746	95KUGCM102AX	J	1000p Ceramic	AD
C1747	95KUGCU472BM	J	4700p Ceramic	AC
RESISTORS				
R102	95KUEEC102CH	J	1k 1/2W Carbon	AB
R103	95KUEXCAS102	J	1k Chip	AB
R104	95KUEXCAS332	J	3.3k Chip	AB
R105	95KUEXCAS473	J	47k Chip	AB
R106	95KUEXCAS333	J	33k Chip	AB
R107	95KUEXCAS103	J	10k Chip	AB
R108	95KUEXCAS103	J	10k Chip	AB
R109	95KUEXCAS103	J	10k Chip	AB
R110	95KUEXCAS272	J	2.7k Chip	AB
R111	95KUEXCAS331	J	330 Chip	AB
R112	95KUEXCAS105	J	1M Chip	AB
R113	95KUEXCAS000	J	0 Chip	AB
R114	95KUEXCAU203	J	20k Chip	AB
R118	95KUEXCAS272	J	2.7k Chip	AB
R119	95KUEXCAU221	J	220 Chip	AB
R120	95KUEXCAS102	J	1k Chip	AB
R121	95KUEEB472DC	J	4.7k 1/4W Carbon	AB
R122	95KUEXCAS103	J	10k Chip	AB
R123	95KUEXCAS103	J	10k Chip	AB
R124	95KUEEB222DC	J	2.2k 1/4W Carbon	AB
R128	95KUEXCAS102	J	1k Chip	AB
R129	95KUEXCAS222	J	2.2k Chip	AB
R130	95KUEXCAS103	J	10k Chip	AB
R131	95KUEEB103DC	J	10k 1/4W Carbon	AB

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POWER/BALLAST UNIT (Continued)

Ref. No.	Part No.	★			Description	Code
R132	95KUEXCAS472	J	4.7k	.	Chip	AB
R133	95KUEXCAS472	J	4.7k	.	Chip	AB
R134	95KUEXCAS103	J	10k	.	Chip	AB
R135	95KUEXCAS103	J	10k	.	Chip	AB
R136	95KUEXCAS102	J	1k	.	Chip	AB
R137	95KUEXCAS103	J	10k	.	Chip	AB
R138	95KUEXCAS223	J	22k	.	Chip	AB
R139	95KUEXCAS472	J	4.7k	.	Chip	AB
R140	95KUEXCAU682	J	6.8k	.	Special	AB
R141	95KUEXCAU471	J	470	.	Special	AB
R142	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R143	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R144	95KUEXCAS103	J	10k	.	Chip	AB
R702	95KUEZ0262ZB	J	Thermistor			AF
R705	95KUEEC824CH	J	820k	1/2W	Carbon	AB
R706	95KUEEC824CH	J	820k	1/2W	Carbon	AB
R707	95KUEFE393CL	J	39k	2W	Metal Film	AD
R708	95KUEFE393CL	J	39k	2W	Metal Film	AD
R709	95KUEFE563CL	J	56k	2W	Metal Film	AD
R710	95KUEFE563CL	J	56k	2W	Metal Film	AD
R711	95KUEEB470DC	J	47	1/4W	Carbon	AB
R712	95KUEEC330CH	J	33	1/2W	Carbon	AB
R713	95KUEEC330CH	J	33	1/2W	Carbon	AB
R714	95KUEEC330CH	J	33	1/2W	Carbon	AB
R715	95KUEEB221DC	J	220	1/4W	Carbon	AB
R716	95KUEEB221DC	J	220	1/4W	Carbon	AB
R717	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R718	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R719	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R720	95KUEEB153DC	J	15k	1/4W	Carbon	AB
R721	95KUEEB821DC	J	820	1/4W	Carbon	AB
R722	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R723	95KUEEC222CH	J	2.2k	1/2W	Carbon	AB
R724	95KUECC825AE	J	8.2M	1/2W	Solid	AB
R725	95KUECC825AE	J	8.2M	1/2W	Solid	AB
R726	95KUEEC470CH	J	47	1/2W	Carbon	AB
R729	95KUEBD1R0AF	J	1	1W	Fuse Resistor	AE
R730	95KUEEC102CH	J	1k	1/2W	Carbon	AB
R731	95KUEEC102CH	J	1k	1/2W	Carbon	AB
R732	95KUEEB561DC	J	560	1/4W	Carbon	AB
R733	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R734	95KUEEB472DC	J	4.7k	1/4W	Carbon	AB
R735	95KUEEB152DC	J	1.5k	1/4W	Carbon	AC
R736	*See Controls*					
R737	95KUEEB332DC	J	3.3k	1/4W	Carbon	AB
R738	95KUEEC152CH	J	1.5k	1/2W	Carbon	AB
R741	95KUEEC222CH	J	2.2k	1/2W	Carbon	AB
R745	95KUEEC222CH	J	2.2k	1/2W	Carbon	AB
R746	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R747	95KUEEB821DC	J	820	1/4W	Carbon	AB
R748	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R749	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R750	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R751	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R752	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R753	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R754	95KUEZ0093KZ	J	0.1	.	Fuse Resistor	AD
R755	95KUEFE1R0CN	J	1	2W	Metal Film	AD
R756	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R757	95KUEEB271DC	J	270	1/4W	Carbon	AB
R758	95KUEEB271DC	J	270	1/4W	Carbon	AB
R759	95KUEEB821DC	J	820	1/4W	Carbon	AB
R760	95KUEBD330AF	J	33	1W	Fuse Resistor	AE
R761	95KUEEB224DC	J	220k	1/4W	Carbon	AB
R764	95KUEFE393CL	J	39k	2W	Metal Film	AD
R1701	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R1702	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R1703	95KUEFD220AU	J	22	1/2W	Carbon	AB
R1704	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R1705	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R1706	95KUEFD220AU	J	22	1/2W	Carbon	AB
R1707	95KUEGER10AS	J	0.1	2W	Cement	AD
R1708	95KUEGER10AS	J	0.1	2W	Cement	AD
R1709	95KUEGER10AS	J	0.1	2W	Cement	AD
R1710	95KUEFE223CA	J	22k	2W	Metal Film	AD
R1711	95KUEFE223CA	J	22k	2W	Metal Film	AD
R1712	95KUEFE183CA	J	18k	2W	Metal Film	AD
R1713	95KUEFE183CA	J	18k	2W	Metal Film	AD
R1714	95KUES6803CQ	J	680k	1/2W	Special	AD
R1715	95KUES2703CQ	J	270k	1/2W	Special	AD
R1716	95KUES4702CQ	J	47k	1/2W	Special	AD
R1717	95KUEEB331DC	J	330	1/4W	Carbon	AB
R1718	95KUEEB333DC	J	33k	1/4W	Carbon	AB
R1719	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R1720	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R1721	95KUEEB271DC	J	270	1/4W	Carbon	AB
R1722	95KUEEC332CH	J	3.3k	1/2W	Carbon	AB
R1723	95KUEFD333BH	J	33k	1W	Metal Film	AC
R1724	95KUEEB103DC	J	10k	1/4W	Carbon	AB
R1725	95KUEEB820DC	J	82	1/4W	Carbon	AB
R1726	95KUEEB102DC	J	1k	1/4W	Carbon	AC
R1727	95KUEEB562DC	J	5.6k	1/4W	Carbon	AB
R1728	95KUEEC473CH	J	47k	1/2W	Carbon	AB
R1729	95KUEEC473CH	J	47k	1/2W	Carbon	AB
R1730	95KUEEC223CH	J	22k	1/2W	Carbon	AB
R1731	95KUEEC223CH	J	22k	1/2W	Carbon	AB
R1732	95KUEEC393CH	J	39k	1/2W	Carbon	AB
R1733	95KUEEC153CH	J	15k	1/2W	Carbon	AB
R1734	95KUEBB1R0AY	J	1	.	Fuse Resistor	AD

MISCELLANEOUS PARTS

CN101A	95KPEZ0047ZZ	J	Socket 7-pin	AD
CN102A	95KPEZ0047ZZ	J	Socket 7-pin	AD
CN101B	95KPKZ2526ZZ	J	Socket 7-pin	AD
CN102B	95KPKZ2526ZZ	J	Socket 7-pin	AD
F1701	95KPJT0160ZZ	J	Thermal Fuse P130A	AF
FB1701	95KUKZ0334ZZ	J	Ferrite Bead	AB
FB1702	95KUKZ0334ZZ	J	Ferrite Bead	AB
FB1703	95KUKZ0334ZZ	J	Ferrite Bead	AB

Ref. No.	Part No.	★	Description	Code

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POWER/BALLAST UNIT (Continued)

FB1704	95KUKZ0334ZZ	J	Ferrite Bead	AB
FB1705	95KUKZ0334ZZ	J	Ferrite Bead	AB
FB1706	95KUKZ0334ZZ	J	Ferrite Bead	AB
FB1707	95KPZZ0605ZZ	J	Jumper	AA
FB1708	95KPZZ0605ZZ	J	Jumper	AA
FB1709	95KBFZ89250Z	J	Ferrite Bead	AB
FB1710	95KBFZ89250Z	J	Ferrite Bead	AB
FB1711	95KBFZ89250Z	J	Ferrite Bead	AB
FB1712	95KBFZ89250Z	J	Ferrite Bead	AB
FB1713	95KBFZ89250Z	J	Ferrite Bead	AB
FB1714	95KBFZ89250Z	J	Ferrite Bead	AB
FB1715	95KUKZ0813ZZ	J	Ferrite Bead	AC
FB1716	95KUKZ0813ZZ	J	Ferrite Bead	AC
FB1717	95KUKZ0813ZZ	J	Ferrite Bead	AC
FB1718	95KUKZ0334ZZ	J	Ferrite Bead	AB
FB1719	95KZBZ0172ZZ	J	Ferrite Bead	
FB1720	95KZBZ0172ZZ	J	Ferrite Bead	
⚠RY701	95KPHZ0132ZZ	J	Relay G5PE-1 (DC12V)	AN
V1701	95KUERAYE471	J	Surge Absorbers	AN
	95KPKZ0194ZZ	J	Base Pin 2-pin (PC)	AC
	95KPKZ1167ZZ	J	Base Pin 3-pin (BA)	AK
	95KPKZ1166ZZ	J	Base Pin 2-pin (PA)	AD
	95KPKZ0527ZZ	J	Connector 7-pin (EV)	AC
	95KPKZ0528ZZ	J	Connector 8-pin (EA)	AD
	95KPKZ0529ZZ	J	Connector 9-pin (EB)	AD
	95KPKZ0541ZZ	J	Connector 3-pin (FS)	AB

Ref. No.	Part No.	★	Description	Code

RPCi-0010CEZZ
PC I/F UNIT

INTEGRATED CIRCUITS

IC8001	9DK001-10012	J	HD407A4359S	BP
IC8002	9DK001-15006	J	RST529CMT	AN
IC8003	9DK001-11012	J	AT24C16N-10SC	AY
IC8004	9DK001-15015	J	TLC29321PW	AX
IC8005	9DK001-12026	J	SN74LS157NS	AK
IC8006	9DK001-15008	J	TL712CPS	AP
IC8007	9DK001-15008	J	TL712CPS	AP
IC8008	9DK001-15008	J	TL712CPS	AP
IC8009	9DK001-15016	J	LT1260CS	BL
IC8010	9DK001-15024	J	M52055FP	AS
IC8013	9DK001-12001	J	SN74ALS1034NS	AG
IC8014	9DK001-15004	J	MM1203	AZ
IC8015	9DK001-15001	J	TDA8703T	BE
IC8016	9DK001-15001	J	TDA8703T	BE
IC8017	9DK001-15001	J	TDA8703T	BE
IC8018	9DK001-14004	J	iX2690CE	BM
IC8019	9DK001-11006	J	MSM518222-25ZS	BH
IC8020	9DK001-11006	J	MSM518222-25ZS	BH
IC8021	9DK001-11006	J	MSM518222-25ZS	BH
IC8022	9DK001-11006	J	MSM518222-25ZS	BH
IC8023	9DK001-11006	J	MSM518222-25ZS	BH
IC8024	9DK001-11006	J	MSM518222-25ZS	BH
IC8025	9DK001-14005	J	iX2691CE	BL
IC8026	9DK001-15021	J	PQ12TZ11	AR
IC8027	9DK001-15022	J	PQ05TZ51	AR
IC8028	9DK001-15023	J	PQ05RF21	AR
IC8029	9DK001-15018	J	HA179L05U	AM

TRANSISTORS

Q8001	9DK001-20007	J	2SC2996	AE
Q8002	9DK001-20007	J	2SC2996	AE
Q8003	9DK001-20007	J	2SC2996	AE
Q8004	9DK001-20007	J	2SC2996	AE
Q8005	9DK001-20007	J	2SC2996	AE
Q8006	9DK001-20008	J	2SK1062	AN
Q8008	9DK001-20008	J	2SK1062	AN
Q8009	9DK001-20010	J	2SC2859	AF
Q8010	9DK001-20009	J	2SA1162GR	AF
Q8011	9DK001-20010	J	2SC2859	AF

DIODES

D8001	9DK001-30006	J	Diode HSM221C	AE
D8002	9DK001-30006	J	Diode HSM221C	AE
D8003	9DK001-30006	J	Diode HSM221C	AE
D8004	9DK001-30006	J	Diode HSM221C	AE
D8005	9DK001-30006	J	Diode HSM221C	AE
D8006	9DK001-30006	J	Diode HSM221C	AE
D8007	9DK001-30006	J	Diode HSM221C	AE
D8008	9DK001-30006	J	Diode HSM221C	AE
D8009	9DK001-30006	J	Diode HSM221C	AE
D8010	9DK001-30006	J	Diode HSM221C	AE
D8011	9DK001-30006	J	Diode HSM221C	AE

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Ref. No.	Part No.	★	Description	Code
D8012	9DK001-30006	J	Diode HSM221C	AE

PACKAGED CIRCUIT

X8001	9DK001-80005	J	Crystal 25MHz	AS

COIL AND TRANSFORMERS

FL8001	9DK001-82014	J	3-pin Filter	AK
FL8002	9DK001-82014	J	3-pin Filter	AK
FL8003	9DK001-82014	J	3-pin Filter	AK
FL8004	9DK001-50041	J	Jumper	AB
FL8005	9DK001-50041	J	Jumper	AB
FL8006	9DK001-82007	J	3-pin Filter	AL
FL8007	9DK001-51014	J	Resistor Array	AE
FL8008	9DK001-51014	J	Resistor Array	AE
FL8010	9DK001-51014	J	Resistor Array	AE
FL8011	9DK001-51014	J	Resistor Array	AE
FL8012	9DK001-51014	J	Resistor Array	AE
FL8013	9DK001-51014	J	Resistor Array	AE
FL8014	9DK001-51014	J	Resistor Array	AE
FL8015	9DK001-51014	J	Resistor Array	AE
FL8016	9DK001-51014	J	Resistor Array	AE
FL8017	9DK001-51014	J	Resistor Array	AE
FL8018	9DK001-51014	J	Resistor Array	AE
FL8019	9DK001-51014	J	Resistor Array	AE
FL8020	9DK001-82013	J	3-pin Filter	AL
FL8021	9DK001-82012	J	3-pin Filter	AK
FL8022	9DK001-82012	J	3-pin Filter	AK
FL8023	9DK001-82012	J	3-pin Filter	AK
FL8024	9DK001-82014	J	3-pin Filter	AK
FL8025	9DK001-82014	J	3-pin Filter	AK
FL8026	9DK001-82014	J	3-pin Filter	AK
L8001	9DK001-81014	J	Inductor 1mH	AK
L8002	9DK001-81011	J	Inductor 470µH	AK

CAPACITORS

C8001	9DK001-42004	J	0.1	25V	Ceramic	AA
C8002	9DK001-42004	J	0.1	25V	Ceramic	AA
C8003	9DK001-42004	J	0.1	25V	Ceramic	AA
C8004	9DK001-42004	J	0.1	25V	Ceramic	AA
C8005	9DK001-42004	J	0.1	25V	Ceramic	AA
C8006	9DK001-42004	J	0.1	25V	Ceramic	AA
C8007	9DK001-42004	J	0.1	25V	Ceramic	AA
C8008	9DK001-42004	J	0.1	25V	Ceramic	AA
C8009	9DK001-42052	J	22p	50V	Ceramic	AC
C8010	9DK001-42046	J	4700p	50V	Ceramic	AC
C8011	9DK001-43004	J	0.47	25V	Tantalum	AH
C8013	9DK001-43003	J	1	16V	Tantalum	AM
C8014	9DK001-42050	J	330p	50V	Ceramic	AC
C8015	9DK001-42004	J	0.1	25V	Ceramic	AA
C8016	9DK001-42004	J	0.1	25V	Ceramic	AA
C8017	9DK001-42004	J	0.1	25V	Ceramic	AA
C8018	9DK001-42004	J	0.1	25V	Ceramic	AA
C8019	9DK001-42004	J	0.1	25V	Ceramic	AA
C8020	9DK001-42004	J	0.1	25V	Ceramic	AA
C8021	9DK001-42004	J	0.1	25V	Ceramic	AA
C8022	9DK001-40024	J	10	50V	Electrolytic	AH
C8023	9DK001-42004	J	0.1	25V	Ceramic	AA
C8024	9DK001-40024	J	10	50V	Electrolytic	AH
C8025	9DK001-42004	J	0.1	25V	Ceramic	AA
C8026	9DK001-40024	J	10	50V	Electrolytic	AH
C8027	9DK001-42004	J	0.1	25V	Ceramic	AA
C8028	9DK001-42002	J	47p	50V	Ceramic	AA
C8029	9DK001-42002	J	47p	50V	Ceramic	AA
C8030	9DK001-42002	J	47p	50V	Ceramic	AA
C8031	9DK001-40023	J	10	16V	Electrolytic	AG
C8032	9DK001-42004	J	0.1	25V	Ceramic	AA
C8033	9DK001-42004	J	0.1	25V	Ceramic	AA
C8034	9DK001-42004	J	0.1	25V	Ceramic	AA
C8035	9DK001-42004	J	0.1	25V	Ceramic	AA
C8036	9DK001-40024	J	10	50V	Electrolytic	AH
C8037	9DK001-40023	J	10	16V	Electrolytic	AG
C8038	9DK001-40024	J	10	50V	Electrolytic	AH
C8039	9DK001-40023	J	10	16V	Electrolytic	AG
C8040	9DK001-40024	J	10	50V	Electrolytic	AH
C8041	9DK001-40023	J	10	16V	Electrolytic	AG
C8049	9DK001-40023	J	10	16V	Electrolytic	AG
C8050	9DK001-40023	J	10	16V	Electrolytic	AG
C8051	9DK001-40023	J	10	16V	Electrolytic	AG
C8052	9DK001-40023	J	10	16V	Electrolytic	AG
C8053	9DK001-40034	J	330	16V	Electrolytic	AK
C8054	9DK001-42004	J	0.1	25V	Ceramic	AA
C8055	9DK001-42004	J	0.1	25V	Ceramic	AA
C8056	9DK001-42004	J	0.1	25V	Ceramic	AA
C8057	9DK001-42004	J	0.1	25V	Ceramic	AA
C8058	9DK001-42004	J	0.1	25V	Ceramic	AA
C8059	9DK001-42004	J	0.1	25V	Ceramic	AA
C8060	9DK001-42004	J	0.1	25V	Ceramic	AA
C8061	9DK001-40034	J	330	16V	Electrolytic	AK
C8062	9DK001-42004	J	0.1	25V	Ceramic	AA
C8063	9DK001-42004	J	0.1	25V	Ceramic	AA
C8064	9DK001-40031	J	220	16V	Electrolytic	AP
C8065	9DK001-40034	J	330	16V	Electrolytic	AK
C8066	9DK001-42031	J	56p	50V	Ceramic	AC
C8067	9DK001-42004	J	0.1	25V	Ceramic	AA
C8068	9DK001-42004	J	0.1	25V	Ceramic	AA
C8069	9DK001-40034	J	330	16V	Electrolytic	AK
C8070	9DK001-42031	J	56p	50V	Ceramic	AC
C8071	9DK001-42004	J	0.1	25V	Ceramic	AA
C8072	9DK001-42031	J	56p	50V	Ceramic	AC
C8073	9DK001-42004	J	0.1	25V	Ceramic	AA
C8074	9DK001-40023	J	10	16V	Electrolytic	AG
C8075	9DK001-42002	J	47p	50V	Ceramic	AA
C8076	9DK001-40030	J	4.7	35V	Electrolytic	AG
C8077	9DK001-42004	J	0.1	25V	Ceramic	AA
C8078	9DK001-40030	J	4.7	35V	Electrolytic	AG
C8079	9DK001-42004	J	0.1	25V	Ceramic	AA
C8080	9DK001-40028	J	22	6.3V	Electrolytic	AG
C8081	9DK001-42004	J	0.1	25V	Ceramic	AA
C8082	9DK001-40030	J	4.7	35V	Electrolytic	AG

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C8083	9DK001-42004	J	0.1	25V	Ceramic	AA
C8084	9DK001-42004	J	0.1	25V	Ceramic	AA
C8085	9DK001-40028	J	22	6.3V	Electrolytic	AG
C8086	9DK001-42002	J	47p	50V	Ceramic	AA
C8087	9DK001-40030	J	4.7	35V	Electrolytic	AG
C8088	9DK001-42004	J	0.1	25V	Ceramic	AA
C8089	9DK001-40030	J	4.7	35V	Electrolytic	AG
C8090	9DK001-42004	J	0.1	25V	Ceramic	AA
C8091	9DK001-42004	J	0.1	25V	Ceramic	AA
C8092	9DK001-40030	J	4.7	35V	Electrolytic	AG
C8093	9DK001-42004	J	0.1	25V	Ceramic	AA
C8094	9DK001-42004	J	0.1	25V	Ceramic	AA
C8095	9DK001-42002	J	47p	50V	Ceramic	AA
C8096	9DK001-40030	J	4.7	35V	Electrolytic	AG
C8097	9DK001-42004	J	0.1	25V	Ceramic	AA
C8098	9DK001-40030	J	4.7	35V	Electrolytic	AG
C8099	9DK001-42004	J	0.1	25V	Ceramic	AA
C8100	9DK001-42004	J	0.1	25V	Ceramic	AA
C8101	9DK001-40030	J	4.7	35V	Electrolytic	AG
C8102	9DK001-42004	J	0.1	25V	Ceramic	AA
C8103	9DK001-42004	J	0.1	25V	Ceramic	AA
C8104	9DK001-42010	J	30p	50V	Ceramic	AC
C8105	9DK001-42010	J	30p	50V	Ceramic	AC
C8106	9DK001-42004	J	0.1	25V	Ceramic	AA
C8107	9DK001-42004	J	0.1	25V	Ceramic	AA
C8108	9DK001-42004	J	0.1	25V	Ceramic	AA
C8109	9DK001-42004	J	0.1	25V	Ceramic	AA
C8110	9DK001-42004	J	0.1	25V	Ceramic	AA
C8111	9DK001-42004	J	0.1	25V	Ceramic	AA
C8112	9DK001-42004	J	0.1	25V	Ceramic	AA
C8113	9DK001-42004	J	0.1	25V	Ceramic	AA
C8114	9DK001-42004	J	0.1	25V	Ceramic	AA
C8115	9DK001-42004	J	0.1	25V	Ceramic	AA
C8116	9DK001-42004	J	0.1	25V	Ceramic	AA
C8117	9DK001-42004	J	0.1	25V	Ceramic	AA
C8118	9DK001-42004	J	0.1	25V	Ceramic	AA
C8119	9DK001-42004	J	0.1	25V	Ceramic	AA
C8120	9DK001-42004	J	0.1	25V	Ceramic	AA
C8121	9DK001-42041	J	100p	50V	Ceramic	AC
C8125	9DK001-42004	J	0.1	25V	Ceramic	AA
C8126	9DK001-42004	J	0.1	25V	Ceramic	AA
C8127	9DK001-42004	J	0.1	25V	Ceramic	AA
C8128	9DK001-42004	J	0.1	25V	Ceramic	AA
C8129	9DK001-42004	J	0.1	25V	Ceramic	AA
C8130	9DK001-42004	J	0.1	25V	Ceramic	AA
C8131	9DK001-42002	J	47p	50V	Ceramic	AA
C8133	9DK001-42043	J	0.01	50V	Ceramic	AC
C8134	9DK001-42054	J	1	16V	Ceramic	AC
C8135	9DK001-42004	J	0.1	25V	Ceramic	AA
C8136	9DK001-40026	J	100	16V	Electrolytic	AL
C8137	9DK001-42004	J	0.1	25V	Ceramic	AA
C8138	9DK001-40035	J	100	35V	Electrolytic	AH
C8139	9DK001-40026	J	100	16V	Electrolytic	AL
C8140	9DK001-42004	J	0.1	25V	Ceramic	AA
C8141	9DK001-42004	J	0.1	25V	Ceramic	AA
C8142	9DK001-40025	J	100	6.3V	Electrolytic	AH
C8143	9DK001-42004	J	0.1	25V	Ceramic	AA
C8144	9DK001-40026	J	100	16V	Electrolytic	AL
C8145	9DK001-42004	J	0.1	25V	Ceramic	AA
C8146	9DK001-40026	J	100	16V	Electrolytic	AL
C8147	9DK001-40026	J	100	16V	Electrolytic	AL
C8148	9DK001-42004	J	0.1	25V	Ceramic	AA
C8149	9DK001-42004	J	0.1	25V	Ceramic	AA
C8150	9DK001-40029	J	22	16V	Electrolytic	AC
C8151	9DK001-40025	J	100	6.3V	Electrolytic	AH
C8152	9DK001-42043	J	0.01	50V	Ceramic	AC
C8153	9DK001-42043	J	0.01	50V	Ceramic	AC
C8154	9DK001-42043	J	0.01	50V	Ceramic	AC
C8155	9DK001-42043	J	0.01	50V	Ceramic	AC
C8156	9DK001-42043	J	0.01	50V	Ceramic	AC
C8157	9DK001-42043	J	0.01	50V	Ceramic	AC
C8158	9DK001-42004	J	0.1	25V	Ceramic	AA
C8159	9DK001-42002	J	47p	50V	Ceramic	AA
C8160	9DK001-42002	J	47p	50V	Ceramic	AA

CONTROLS

R8088	9DK001-52003	J	33k(B)	Contrast	AG
R8095	9DK001-52002	J	150(B)	R-Level	AG
R8103	9DK001-52002	J	150(B)	B-Level	AG

RESISTORS

RA8001	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8002	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8003	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8004	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8005	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8006	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8007	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8008	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8009	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8010	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8011	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8012	9DK001-51005	J	120	1/16W Resistor Array	AE
RA8013	9DK001-51015	J	330	1/16W Resistor Array	AF
RA8014	9DK001-51015	J	330	1/16W Resistor Array	AF
RA8015	9DK001-51015	J	330	1/16W Resistor Array	AF
RA8016	9DK001-51015	J	330	1/16W Resistor Array	AF
RA8017	9DK001-51015	J	330	1/16W Resistor Array	AF
RA8018	9DK001-51015	J	330	1/16W Resistor Array	AF
RA8019	9DK001-51016	J	560	1/16W Resistor Array	AF
RA8020	9DK001-51016	J	560	1/16W Resistor Array	AF
RA8021	9DK001-51016	J	560	1/16W Resistor Array	AF
RA8022	9DK001-51016	J	560	1/16W Resistor Array	AF
RA8023	9DK001-51016	J	560	1/16W Resistor Array	AF
RA8024	9DK001-51016	J	560	1/16W Resistor Array	AF
RA8025	9DK001-51019	J	1k	1/16W Resistor Array	AE
RA8026	9DK001-51019	J	1k	1/16W Resistor Array	AE
RA8027	9DK001-51019	J	1k	1/16W Resistor Array	AE
RA8028	9DK001-51019	J	1k	1/16W Resistor Array	AE

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Ref. No.	Part No.	★	Description	Code
RA8029	9DK001-51019	J	1k 1/16W Resistor Array	AE
RA8030	9DK001-51019	J	1k 1/16W Resistor Array	AE
RA8031	9DK001-51019	J	1k 1/16W Resistor Array	AE
RA8032	9DK001-51019	J	1k 1/16W Resistor Array	AE
RA8033	9DK001-51019	J	1k 1/16W Resistor Array	AE
RA8034	9DK001-51019	J	1k 1/16W Resistor Array	AE
RA8035	9DK001-51019	J	1k 1/16W Resistor Array	AE
RA8036	9DK001-51019	J	1k 1/16W Resistor Array	AE
RA8037	9DK001-51018	J	10k 1/16W Resistor Array	AE
RA8038	9DK001-51018	J	10k 1/16W Resistor Array	AE
RA8039	9DK001-51018	J	10k 1/16W Resistor Array	AE
RA8040	9DK001-51018	J	10k 1/16W Resistor Array	AE
RA8041	9DK001-51018	J	10k 1/16W Resistor Array	AE
RA8042	9DK001-51017	J	5.6k 1/16W Resistor Array	AE
RA8043	9DK001-51018	J	10k 1/16W Resistor Array	AE
RA8044	9DK001-51018	J	10k 1/16W Resistor Array	AE
R8001	9DK001-50017	J	220 1/10W	AA
R8002	9DK001-50017	J	220 1/10W	AA
R8003	9DK001-50017	J	220 1/10W	AA
R8004	9DK001-50017	J	220 1/10W	AA
R8005	9DK001-50017	J	220 1/10W	AA
R8006	9DK001-50017	J	220 1/10W	AA
R8007	9DK001-50004	J	100 1/10W	AA
R8008	9DK001-50004	J	100 1/10W	AA
R8009	9DK001-50004	J	100 1/10W	AA
R8010	9DK001-50012	J	10k 1/10W	AA
R8012	9DK001-50050	J	47k 1/10W	AC
R8013	9DK001-50013	J	22k 1/10W	AA
R8014	9DK001-50004	J	100 1/10W	AA
R8015	9DK001-50004	J	100 1/10W	AA
R8016	9DK001-50004	J	100 1/10W	AA
R8017	9DK001-50017	J	220 1/10W	AA
R8018	9DK001-50048	J	3.3k 1/10W	AB
R8019	9DK001-50008	J	2.2k 1/10W	AA
R8020	9DK001-50006	J	560 1/10W	AA
R8022	9DK001-50008	J	2.2k 1/10W	AA
R8024	9DK001-50012	J	10k 1/10W	AA
R8025	9DK001-50021	J	0 1/10W Jumper	AB
R8026	9DK001-50011	J	5.6k 1/10W	AA
R8027	9DK001-50017	J	220 1/10W	AA
R8028	9DK001-50017	J	220 1/10W	AA
R8029	9DK001-50017	J	220 1/10W	AA
R8030	9DK001-50014	J	75 1/4W	AA
R8031	9DK001-50014	J	75 1/4W	AA
R8032	9DK001-50014	J	75 1/4W	AA
R8033	9DK001-50011	J	5.6k 1/10W	AA
R8034	9DK001-50011	J	5.6k 1/10W	AA
R8035	9DK001-50011	J	5.6k 1/10W	AA
R8036	9DK001-50004	J	100 1/10W	AA
R8037	9DK001-50018	J	3.9k 1/10W	AA
R8038	9DK001-50008	J	2.2k 1/10W	AA
R8039	9DK001-50004	J	100 1/10W	AA
R8040	9DK001-50018	J	3.9k 1/10W	AA
R8041	9DK001-50008	J	2.2k 1/10W	AA
R8042	9DK001-50004	J	100 1/10W	AA
R8043	9DK001-50018	J	3.9k 1/10W	AA
R8044	9DK001-50008	J	2.2k 1/10W	AA
R8045	9DK001-50012	J	10k 1/10W	AA
R8046	9DK001-50012	J	10k 1/10W	AA
R8047	9DK001-50012	J	10k 1/10W	AA
R8049	9DK001-50011	J	5.6k 1/10W	AA
R8050	9DK001-50012	J	10k 1/10W	AA
R8051	9DK001-50013	J	22k 1/10W	AA
R8052	9DK001-50013	J	22k 1/10W	AA
R8053	9DK001-50008	J	2.2k 1/10W	AA
R8054	9DK001-50013	J	22k 1/10W	AA
R8055	9DK001-50013	J	22k 1/10W	AA
R8056	9DK001-50008	J	2.2k 1/10W	AA
R8057	9DK001-50013	J	22k 1/10W	AA
R8058	9DK001-50013	J	22k 1/10W	AA
R8059	9DK001-50008	J	2.2k 1/10W	AA
R8060	9DK001-50020	J	120 1/10W	AA
R8061	9DK001-50020	J	120 1/10W	AA
R8062	9DK001-50020	J	120 1/10W	AA
R8063	9DK001-50008	J	2.2k 1/10W	AA
R8064	9DK001-50008	J	2.2k 1/10W	AA
R8065	9DK001-50008	J	2.2k 1/10W	AA
R8066	9DK001-50008	J	2.2k 1/10W	AA
R8067	9DK001-50008	J	2.2k 1/10W	AA
R8068	9DK001-50008	J	2.2k 1/10W	AA
R8069	9DK001-50014	J	75 1/4W	AA
R8070	9DK001-50014	J	75 1/4W	AA
R8071	9DK001-50014	J	75 1/4W	AA
R8072	9DK001-50017	J	220 1/10W	AA
R8073	9DK001-50059	J	2k 1/10W	AC
R8074	9DK001-50021	J	0 1/10W Jumper	AB
R8075	9DK001-42002	J		
R8076	9DK001-50017	J	220 1/10W	AA
R8077	9DK001-50021	J	0 1/10W Jumper	AB
R8078	9DK001-50029	J	330 1/10W	AB
R8079	9DK001-50030	J	390 1/10W	AB
R8080	9DK001-50020	J	120 1/10W	AA
R8081	9DK001-50020	J	120 1/10W	AA
R8082	9DK001-50017	J	220 1/10W	AA
R8083	9DK001-50059	J	2k 1/10W	AC
R8084	9DK001-50003	J	68 1/10W	AA
R8085	9DK001-50003	J	68 1/10W	AA
R8086	9DK001-50062	J	1k 1/10W	AB
R8087	9DK001-50058	J	62k 1/10W	AC
R8088	*See Controls*			
R8089	9DK001-50017	J	220 1/10W	AA
R8090	9DK001-50001	J	10 1/10W	AA
R8091	9DK001-50012	J	10k 1/10W	AA
R8092	9DK001-50016	J	82 1/10W	AA
R8093	9DK001-50012	J	10k 1/10W	AA
R8094	9DK001-50012	J	10k 1/10W	AA
R8095	*See Controls*			
R8096	9DK001-50062	J	1k 1/10W	AB
R8097	9DK001-50033	J	1.2k 1/10W	AB

RPCi-0010CEZZ
PC I/F UNIT (Continued)

Ref. No.	Part No.	★	Description	Code
R8098	9DK001-50006	J	560 1/10W	AA
R8099	9DK001-50062	J	1k 1/10W	AB
R8100	9DK001-50033	J	1.2k 1/10W	AB
R8101	9DK001-50006	J	560 1/10W	AA
R8102	9DK001-50001	J	10 1/10W	AA
R8103	*See Controls*			
R8104	9DK001-50062	J	1k 1/10W	AB
R8105	9DK001-50033	J	1.2k 1/10W	AB
R8106	9DK001-50006	J	560 1/10W	AA
R8107	9DK001-50004	J	100 1/10W	AA
R8108	9DK001-50062	J	1k 1/10W	AB
R8109	9DK001-50004	J	100 1/10W	AA
R8110	9DK001-50062	J	1k 1/10W	AB
R8111	9DK001-50004	J	100 1/10W	AA
R8112	9DK001-50062	J	1k 1/10W	AB
R8113	9DK001-50064	J	39k 1/10W	AB
R8114	9DK001-50064	J	39k 1/10W	AB
R8115	9DK001-50021	J	0 1/10W Jumper	AB
R8116	9DK001-50020	J	120 1/10W	AA
R8117	9DK001-50029	J	330 1/10W	AB
R8118	9DK001-81015	J	Solid Inductor (Chip)	AG
R8119	9DK001-50012	J	10k 1/10W	AA
R8120	9DK001-50012	J	10k 1/10W	AA
R8121	9DK001-50046	J	10 2W	AE
R8122	9DK001-50011	J	5.6k 1/10W	AA
R8123	9DK001-50011	J	5.6k 1/10W	AA
R8124	9DK001-50011	J	5.6k 1/10W	AA
R8126	9DK001-50033	J	1.2k 1/10W	AB
R8127	9DK001-50033	J	1.2k 1/10W	AB
R8128	9DK001-50033	J	1.2k 1/10W	AB
R8129	9DK001-50062	J	1k 1/10W	AB
R8130	9DK001-50029	J	330 1/10W	AB
R8131	9DK001-50012	J	10k 1/10W	AA
R8132	9DK001-50029	J	330 1/10W	AB
R8133	9DK001-50012	J	10k 1/10W	AA
R8134	9DK001-50050	J	47k 1/10W	AC
R8135	9DK001-50017	J	220 1/10W	AA
R8136	9DK001-81015	J	Solid Inductor (Chip)	AG
R8137	9DK001-50012	J	10k 1/10W	AA
R8138	9DK001-81015	J	Solid Inductor (Chip)	AG
R8139	9DK001-50066	J	1 1/2W	AB

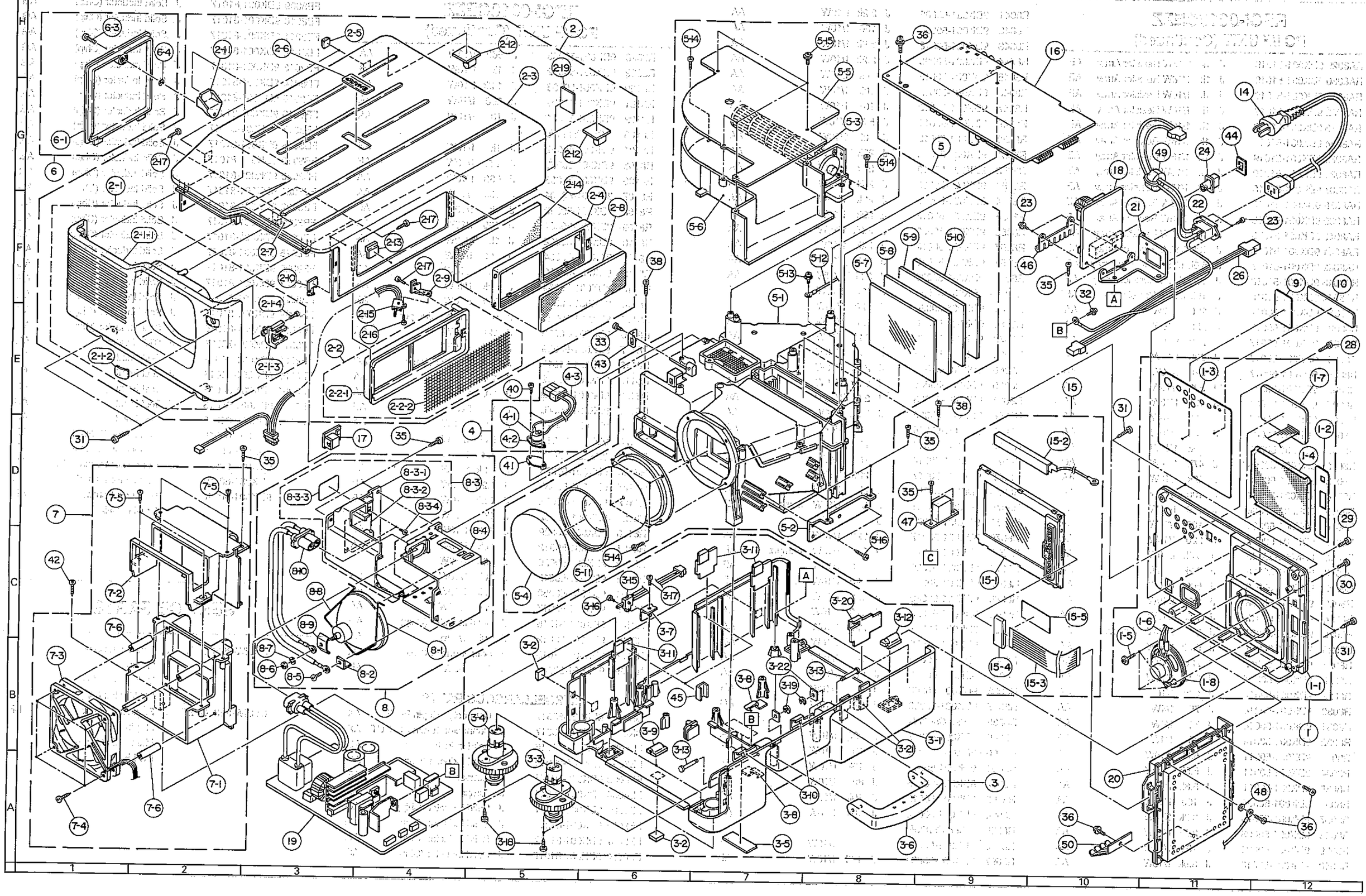
MISCELLANEOUS PARTS

CN1	9DK001-60017	J	Connector 15-pin PC-IN	AX
CN2	9DK001-60017	J	Connector 15-pin PC-OUT	AX
FB8001	9DK001-81016	J	Solid Inductor (Chip)	AG
FB8002	9DK001-81015	J	Solid Inductor (Chip)	AG
FB8003	9DK001-50041	J	Jumper	AB
FB8004	9DK001-50041	J	Jumper	AB
FB8005	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8006	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8007	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8008	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8009	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8010	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8011	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8012	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8013	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8014	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8015	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8016	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8017	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8018	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8019	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8020	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8021	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8022	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8023	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8024	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8025	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8026	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8027	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8028	9DK001-81017	J	Solid Inductor (Chip)	AG
FB8029	9DK001-81015	J	Solid Inductor (Chip)	AG
FB8030	9DK001-81015	J	Solid Inductor (Chip)	AG
S8001	9DK001-70008	J	Slide Switch	AQ
TP8002	9DK001-84013	J	Test Point	AC
TP8003	9DK001-84013	J	Test Point	AC
TP8004	9DK001-84013	J	Test Point	AC
TP8006	9DK001-84013	J	Test Point	AC
TP8007	9DK001-84013	J	Test Point	AC
	9DK001-60019	J	Connector 40-pin (LC)	AR
	9DK001-60020	J	Connector 22-pin (CA)	AP
	9DK001-60020	J	Connector 22-pin (CS)	AP
	9DK001-60021	J	Connector 7-pin (EV)	AK
	9DK001-60018	J	Hexagon Screw, x4 for CN1/CN2	AE

SERVICE PARTS

QCNW-3936CEZZ	J	Extension Cable 22-pin Main Unit (CA) — PC I/F Unit (CA)		BB
QCNW-3936CEZZ	J	Extension Cable 22-pin Main Unit (CS) — PC I/F Unit (CS)		BB

CABINET AND MECHANICAL PARTS/GEHÄUSE UND MECHANISCHE BAUTEILE/ 壳罩与机械零件分解图



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CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
1	CBDYR1050CEK1	J	Rear Body Ass'y	BQ
1-1	*Not Available*	–	Rear Body	—
1-2	HiNDP4661CESA	J	Indication Plate, PC	AE
1-3	HiNDP4685CESA	J	Model Label	AG
1-4	HPNC-0390CESA	J	Punching Metal	AK
1-5	LX-HZ3066CEFD	J	Screw, x3	AB
1-6	QCNW-4428CEZZ	J	Connecting Wire	AG
1-7	QSW-Z0044CEZZ	J	Membrane Switch	BA
1-8	VSP0080PBK48A	J	Speaker	AN
2	CBDYT1059CEK1	J	Front/Top Body Ass'y	CB
2-1	CBDYF1066CEK1	J	Front Body Ass'y	BN
2-1-1	*Not Available*	–	Front Body	—
2-1-2	HDECP0162CESA	J	Decoration Plate	AF
2-1-3	LHLDZ1943CEKZ	J	Holder, x1	AF
2-1-4	XEBSD30P08000	J	Screw, x1	AA
2-2	CCOVA1641CEK1	J	Fan Cover Ass'y	AR
2-2-1	*Not Available*	–	Fan Cover	—
2-2-2	HPNC-0396CESA	J	Punching Metal	AL
2-3	*Not Available*	–	Top Body	—
2-4	GCOVH1294CEKZ	J	Cover	AK
2-5	GLEGG9032CESA	J	Rubber Foot, x2	AC
2-6	HBDGB3107CESA	J	Badge, SHARP	AL
2-7	HiNDP4637CESG	J	Indication Plate	AD
2-8	HPNC-0397CESA	J	Punching Metal	AK
2-9	LANGQ1319CEFW	J	Fixing Metal	AD
2-10	LHLDW1186CEKZ	J	Wire Holder, x2	AD
2-11	LHLDZ1937CEKZ	J	Holder, with Nut	AH
2-12	LHLDZ1938CEKZ	J	Holder, x2	AD
2-13	LHLDZ1954CEZZ	J	Holder	AD
2-14	PFiLD0040CEZZ	J	Filter	AF
2-15	QCNW-4430CEZZ	J	Leaf Switch	AE
2-16	XBPSD26P06000	J	Screw, x1	AA
2-17	XEBSD30P08000	J	Screw, x5	AA
2-18	*Not Used*			
2-19	PMLT-0248CEZZ	J	Molt	AC
3	CBDYU1063CEK1	J	Bottom Body Ass'y	BZ
3-1	*Not Available*	–	Bottom Body	—
3-2	GLEGG9032CESA	J	Rubber Foot, x3	AC
3-3	GLEGP9104CEKB	J	Adjuster	AQ
3-4	GLEGP9105CEKB	J	Adjuster	AQ
3-5	HDECP0164CEKA	J	Decoration Plate	AC
3-6	JHNDA1028CESA	J	Handle	AP
3-7	LANGQ1320CEFW	J	Fixing Metal	AD
3-8	LHLDW1197CEKZ	J	Wire Holder, x2	AD
3-9	LHLDZ1939CEKZ	J	Holder, x2	AD
3-10	LHLDZ1940CEKZ	J	Holder, x2	AD
3-11	LHLDZ1941CEKZ	J	Holder, x3	AD
3-12	LHLDZ1942CEKZ	J	Holder, x2	AD
3-13	NSFTH0016CE00	J	Shaft, x2	AD
3-14	*Not Used*			
3-15	QCNW-4429CEZZ	J	Connecting Wire	AL
3-16	XBPSD26P06000	J	Screw, x1	AA
3-17	XEBSD30P08000	J	Screw, x1	AA
3-18	XEPSF40P12000	J	Screw, x4	AA
3-19	XRESJ30-06000	J	Screw, x2	AA
3-20	LHLDZ1977CEKZ	J	Holder, x1	AD
3-21	LHLDZ1982CEKZ	J	Holder, x2	AC
3-22	LHLDZ1978CEKZ	J	Holder, x2	AD
3-23	PMLT-0249CEZZ	J	Molt	AC
⚠4	CBiM-0001DE16	J	Bimetal Ass'y	BE
⚠4-1	*Not Available*	–	Bimetal	—
4-2	LHLDW1033CEKZ	J	Holder	AA
4-3	QCNW-4433CEZZ	J	Connecting Wire	AK
5	CCHSK0030CEK2	J	Optics Mech. Ass'y	DA
5-1	*Not Available*	–	Optics Mech.	—
5-2	LANGK0580CEFW	J	Angle	AN
5-3	NFANC0003CEZZ	J	Fan	BC
5-4	PCAPH1043CESA	J	Lens Cap	AL
5-5	PDUC-0029CE00	J	Duct, Top	AR
5-6	PDUC-0030CE00	J	Duct, Bottom	AZ
5-7	PLNS-0080CEZZ	J	Outgoing-Light Fresnel Lens	BK
5-8	PFiLW0132CEZZ	J	Outgoing-Light Deflection Plate	BM
5-9	PFiLW0098CEZZ	J	Incoming-Light Deflection Plate	AZ
5-10	PLNS-0081CEZZ	J	Incoming-Light Fresnel Lens	BK
5-11	PLNS-0079CEZZ	J	Projection Lens	BY
5-12	RH-HZ0045CEZZ	J	Thermistor	AQ
5-13	XBPSD30P08KS0	J	Screw, x1	AA
5-14	XBPSF40P10000	J	Screw, x6	AA
5-15	XBPSF26P10000	J	Screw, x4	AA
5-16	XEPSF40P12000	J	Screw, x2	AA
6	CCOVA1643CEK1	J	Lamp Cover Ass'y	AX
6-1	*Not Available*	–	Lamp Cover	—
6-2	*Not Used*			
6-3	LX-BZ3334CESA	J	Screw	AE
6-4	XRESJ30-06000	J	E-Ring	AA
7	CCOVZ1037CEK1	J	Fan Duct Ass'y	BG
7-1	*Not Available*	–	Fan Duct, Bottom	—
7-2	PCOVZ1038CEKZ	J	Fan Duct, Top	AQ
7-3	NFANR0017CE00	J	Fan	BC
7-4	XTPSD40P50000	J	Screw, x4	AA
7-5	XEPSF30P08000	J	Screw, x4	AA
7-6	PSPAZ0218CEZZ	J	Spacer, x4	AE
⚠8	BQC-XG3700E/1	J	Lamp Unit (Lamp/Cage Module)	CH
⚠8-1	CLMPF0037DE01	J	Lamp/Mirror Ass'y	CC
8-2	LANGQ9183CEBN	J	Angle	AD
8-3	CHLDZ1928CE02	J	Holder Ass'y	AT
8-3-1	LHLDZ1928CEZZ	J	Holder	AT

CABINET AND MECHANICAL PARTS (Continued)

Ref. No.	Part No.	★	Description	Code
8-3-2	PSLDH3040CE00	J	Heat Shield	AE
8-3-3	TLABZ0533CEZZ	J	Label	AC
8-3-4	XEPSD30P06000	J	Screw, x2	AA
8-4	LHLDZ1929CEZZ	J	Holder	AV
8-5	LX-BZ3270CEFN	J	Screw, x1	AA
8-6	LX-NZ3108CEFN	J	Nut, x1	AA
8-7	LX-WZ3102CEFN	J	Washer, x1	AA
8-8	MSPRB0021CEFW	J	Spring, x1	AG
8-9	PRDAR1499CEFW	J	Heat Sink	AC
8-10	QPLGN0309FJZZ	J	Plug	AP
9	TLABS0212CEZZ	J	CE Label	AD
10	HiNDP4724CEZZ	J	Serial Number Plate	AD
11				
12	*Not Used*			
13				
⚠14	QACCB5016CEZZ	J	AC Cord (For U.K. and Hong Kong only)	AY
⚠14	QACCL3019CEZZ	J	AC Cord (For Australia and New Zealand only)	AY
⚠14	QACCV4001CEZZ	J	AC Cord (Not for U.K., Hong Kong, Australia and New Zealand)	AX
15	DLCPP0043DE01	J	LCD Module Unit Ass'y	DV
15-1	*Not Available*	–	LCD Module Unit	—
15-2	PSLDM9119CEZZ	J	Shield	AN
15-3	QCNW-4513CEZZ	J	FFC	AK
15-4	RCORF0044CEZZ	J	Core	AK
15-5	PSPAT0023CEZZ	J	Teflon Tape	AC
16	*Not Available*	–	Main Unit	—
17	*Not Available*	–	R/C Receiver Unit	—
18	*Not Available*	–	Power Switch Unit	—
19	*Not Available*	–	Power Ballast Unit	—
20	*Not Available*	–	PC I/F Unit	—
21	LANGQ9185CEFW	J	Angle	AE
⚠22	QCNW-4553CEZZ	J	AC-Inlet	AP
23	XHPSD30P08000	J	Screw, x4	AA
24	JKNBP1065CESB	J	Knob, AC Switch	AC
25	*Not Used*			
26	QCNW-4432CEZZ	J	Connecting Wire, (PA)	AL
27	*Not Used*			
28	LX-HZ3067CESD	J	Screw, x1	AC
29	LX-HZ3084CESA	J	Screw, x1	AC
30	LX-HZ3085CESA	J	Screw, x2	AC
31	LX-TZ3060CESF	J	Screw, x6	AB
32	XBPSD30P08KS0	J	Screw, x1	AA
33	XEPSD30P06000	J	Screw, x1	AA
34	*Not Used*			
35	XEPSD40P12000	J	Screw, x9	AA
36	XHPSD30P08WS0	J	Screw, x6	AA
37	*Not Used*			
38	XTBSD40P30000	J	Screw, x6	AA
39	*Not Used*			
40	XEPSD30P08000	J	Screw, x2	AA
41	PSPAZ0192CEZZ	J	Spacer	AF
42	XEPSD40P16000	J	Screw, x1	AA
43	MSPRB0023CEFW	J	Angle	AD
44	PCOVU9010CE00	J	Light Shield Plate	AB
45	PSPAZ0212CEZZ	J	Spacer, x2	AF
46	QEARP0074CEFW	J	Earth Spring	AD
47	RTRNC0059CEZZ	J	Choke Trans. (For Europe, U.K., Australia and New Zealand only)	BB
47	QCNW-4560CEZZ	J	Connecting Cord, (PC) (Not for Europe, U.K., Australia and New Zealand)	AF
48	XWHSD32-05080	J	Washer, x1	AA
49	RCORF0054CEZZ	J	Ferrite Core	AK
50	QEARP0075CEFW	J	Earth Spring	AE

SUPPLIED ACCESSORIES

ACCESSORIES

PFiLD0047CEZZ	J	Extra Air Filter	AF
QCNW-4422CEZZ	J	VGA Cable	BH
QPLGJ1505CEZZ	J	Mac/VGA Adaptor	AZ
RRMCG1245CESA	J	Remote Control Unit	BB
TiNS-5881CEZZ	J	Operation Manual	AU

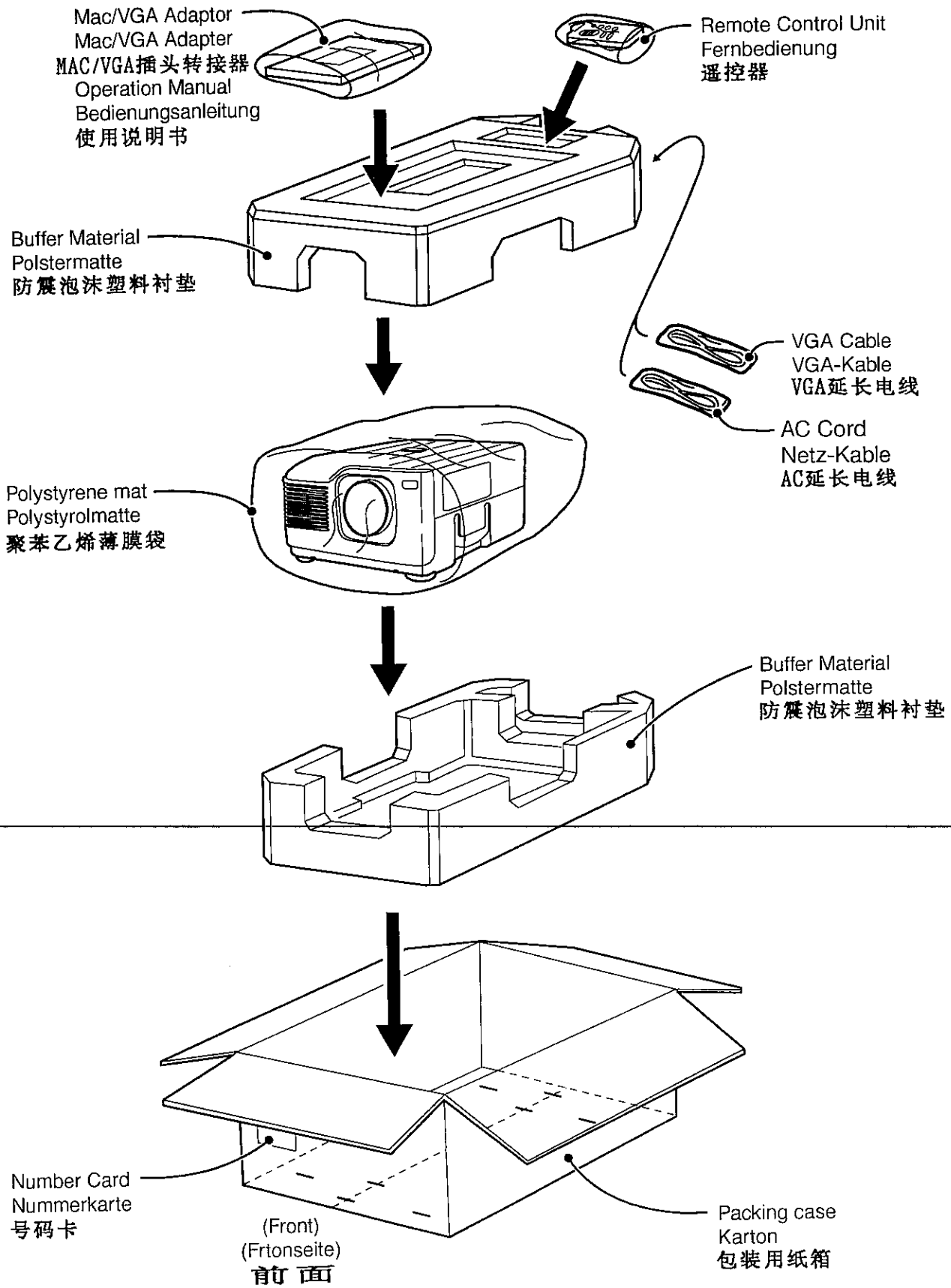
ACCESSORIES (NOT REPLACEMENT ITEM)

TCADS3003CEZZ	–	SS-List (Not for U.K., Hong Kong, Australia and New Zealand)	—
TCADZ3093CEZZ	–	Register Card (For Europe only)	—
TGANE0050TAZZ	–	Guarantee Card (For Australia and New Zealand only)	—
UBATU0026GEZZ	–	Dry Batteries	—

PACKING PARTS (NOT REPLACEMENT ITEM)

SPAKC4935CEZZ	–	Packing Case	—
SPAKP0787CEZZ	–	Polystyrene Mat	—
SPAKX2709CEZZ	–	Buffer Material	—
TLABK0001TAZZ	–	Number Card	—
TLABN0157CEZZ	–	Serial Number Label	—

PACKING OF THE SET
VERPACKEN DES GERÄTS
包装方法



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SHARP

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